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P.252

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# **1983 TAIL-ERA DATA** **SERIES** **VOLUME 4**

## **GOES 5 and GOES 6** **Geosynchronous Magnetic Field Data**

(NASA-TM-105040) THE 1983 TAIL-ERA DATA  
SERIES. VOLUME 4: GOES 5 AND GOES 6  
GEOSYNCHRONOUS MAGNETIC FIELD DATA (NASA)  
252 p CSCL 03B

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G3/90 0032982



National Aeronautics and  
Space Administration

**Goddard Space Flight Center**



**1983 TAIL-ERA DATA SERIES**  
**VOLUME 4**

**GOES 5 and GOES 6 Geosynchronous Magnetic Field Data**

**March 1991**

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## Foreword

This is the fourth in a series of volumes covering the period when the ISEE 3 spacecraft was within and near the Earth's magnetic tail. Since measurements in the distant magnetotail are known to be influenced by geomagnetic activity at the Earth (e.g., Baker et al., JGR, p. 3855, 1984; Slavin et al., GRL, p. 657, 1984), it was deemed worthwhile to print this book of geosynchronous magnetic field data for comparison with same-scale plots of ISEE 3 plasma and field data available in Volumes 1 and 2 of this series and geosynchronous particle data in Volume 3.

This book contains 24-hour plots of approximately one-minute average magnetic fields from the GOES 5 and GOES 6 spacecraft for the period January 1 - September 4, 1983, with the exception that GOES 6 was not available for the first five months of 1983. Data are displayed in a VDH coordinate system based on a centered dipole with northern hemisphere geographic coordinates of the pole at  $78.80^\circ$  latitude and  $289.24^\circ$  longitude. The magnetic field components are BH parallel to the dipole axis and positive northward, BV perpendicular to BH and in the plane of BH and the radius vector from the center of the Earth to the spacecraft (positive outward) and BD perpendicular to the HV plane and positive eastward. The top trace BT indicates the total field magnitude and the bottom trace ELEV represents the latitude angle of the field in the VDH system (a  $0^\circ$  field is in the equatorial plane, a  $90^\circ$  field is northward). Magnetic local times are shown along the upper horizontal axis and universal times and dipole tilt angles (the geomagnetic latitude of the Sun) along the bottom horizontal axis. The lighter trace represents GOES 5 and the darker trace GOES 6. Corrections to the spin axis component of the field determined by Fairfield and Zanetti [JGR, p. 3565, 1989] have **not** been applied to this data.

When the two spacecraft were simultaneously in orbit, they were separated by about four hours in local time in contrast to the 1986 PROMIS interval printed earlier when these spacecraft were separated by about two hours local time. GOES 5 was continually located near  $75^\circ$  West Geographic Longitude and GOES 6 was located at  $135^\circ$  West Geographic Longitude. In these locations GOES 5 is at a geomagnetic latitude of  $11.2^\circ$ , which is near the maximum for a geosynchronous spacecraft, whereas GOES 6 is at  $4.8^\circ$  geomagnetic latitude. These locations relative to three Los Alamos geosynchronous spacecraft (see Volume 3 of this series) are shown in Figure 1. The positions are shown for 0600 Universal Time, an hour that provides optimal coverage of the midnight region. Geosynchronous spacecraft orbit essentially in the geographic equatorial plane and remain fixed with respect to the rotating field, but the geomagnetic latitude of the various spacecraft is different at the different longitudes. These dipole latitudes at the various geographic longitudes are shown in Figure 2 along with spacecraft positions of both GOES 5 and 6 and the Los Alamos/DOE particle monitoring spacecraft of Volume 3.

# GEOSYNCHRONOUS SPACECRAFT POSITIONS ISEE 3 TAIL INTERVAL

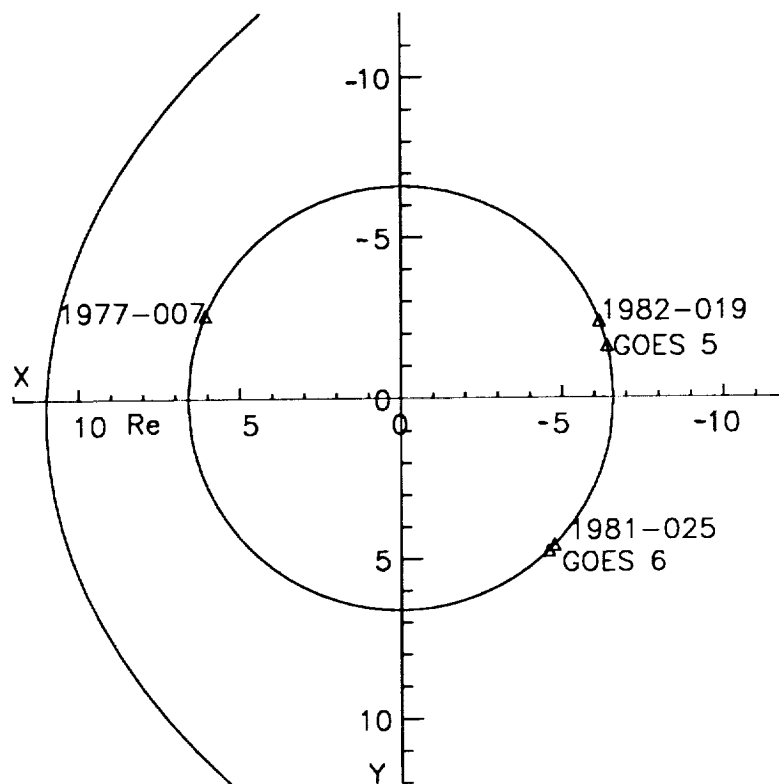


FIGURE 1

DIPOLE LATITUDE OF GEOSYNCHRONOUS SPACECRAFT  
ISEE 3 TAIL INTERVAL

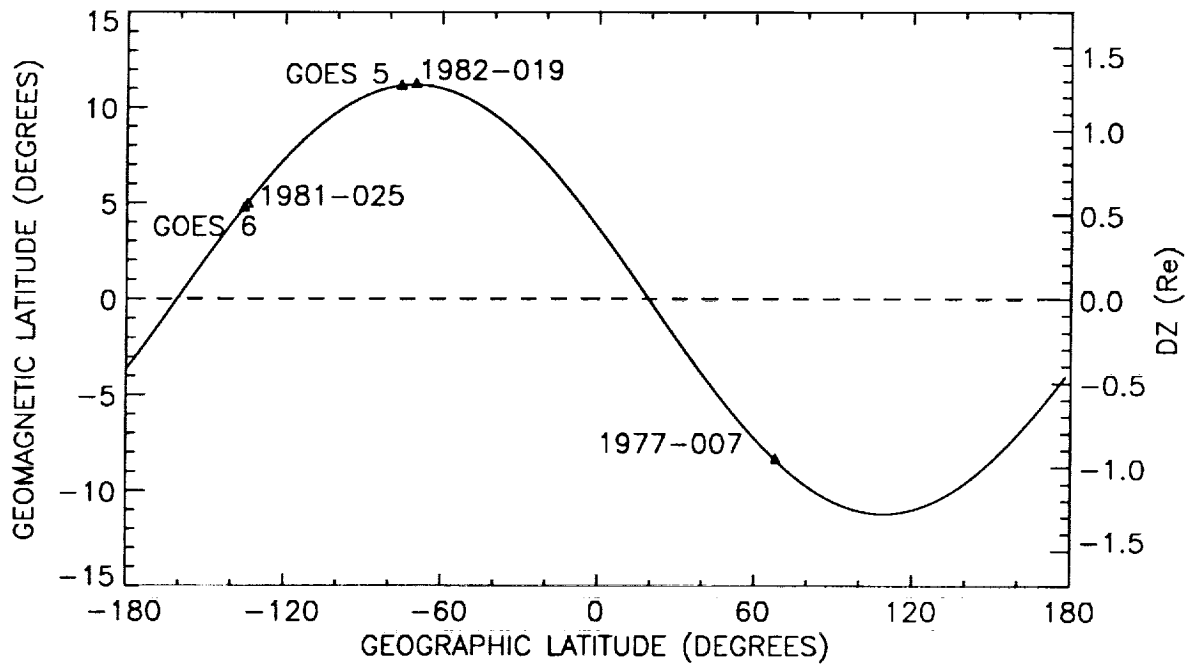


FIGURE 2

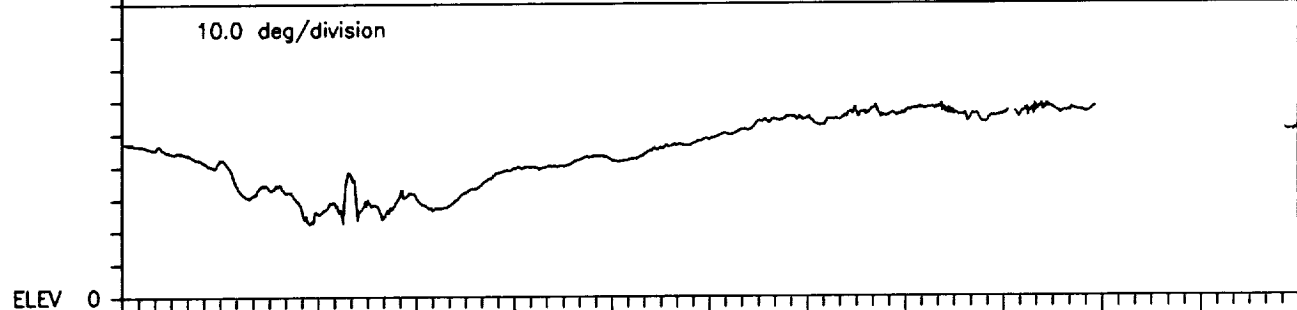
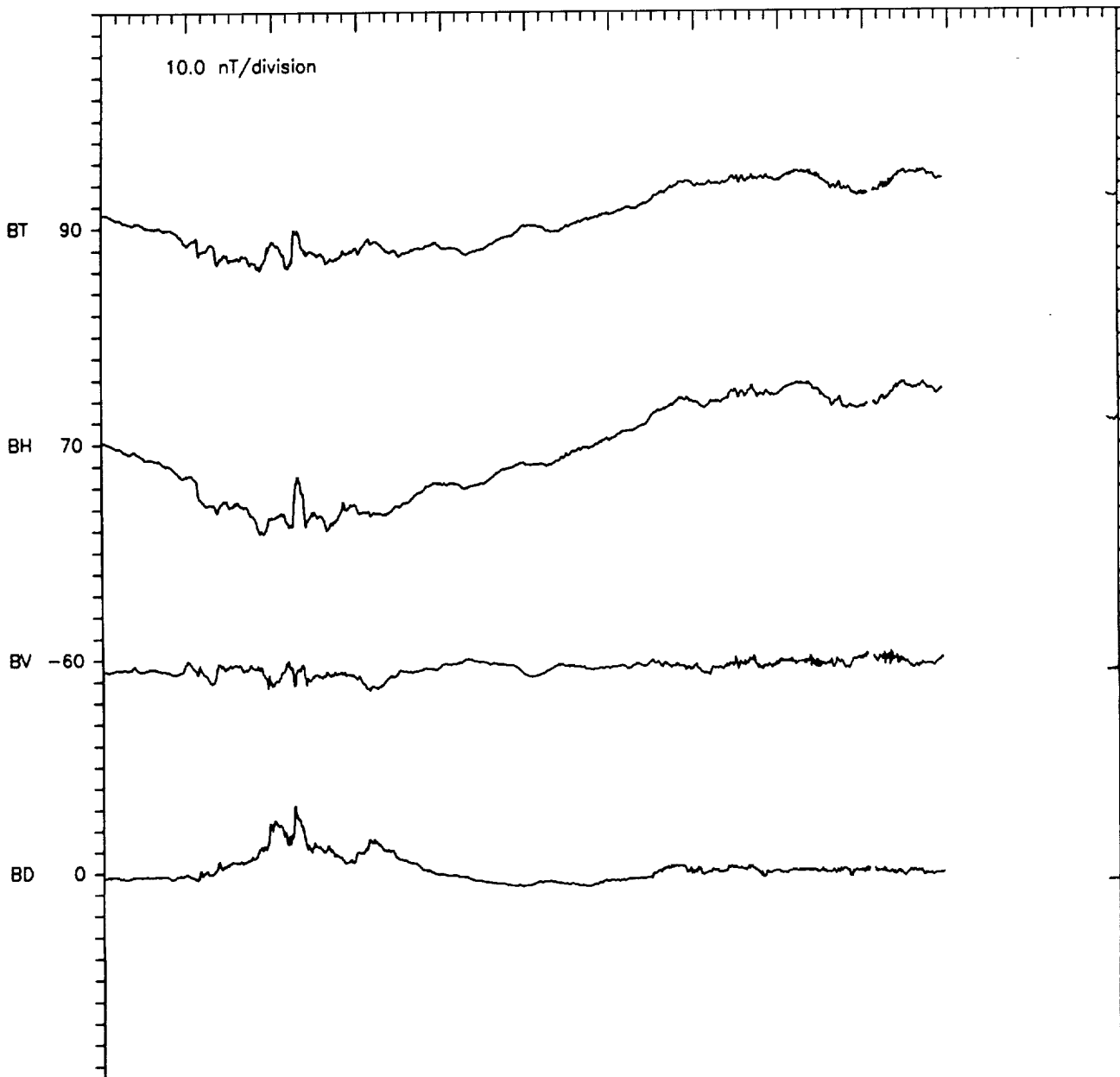
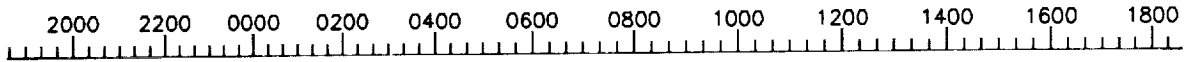


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 1 JAN 1

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5



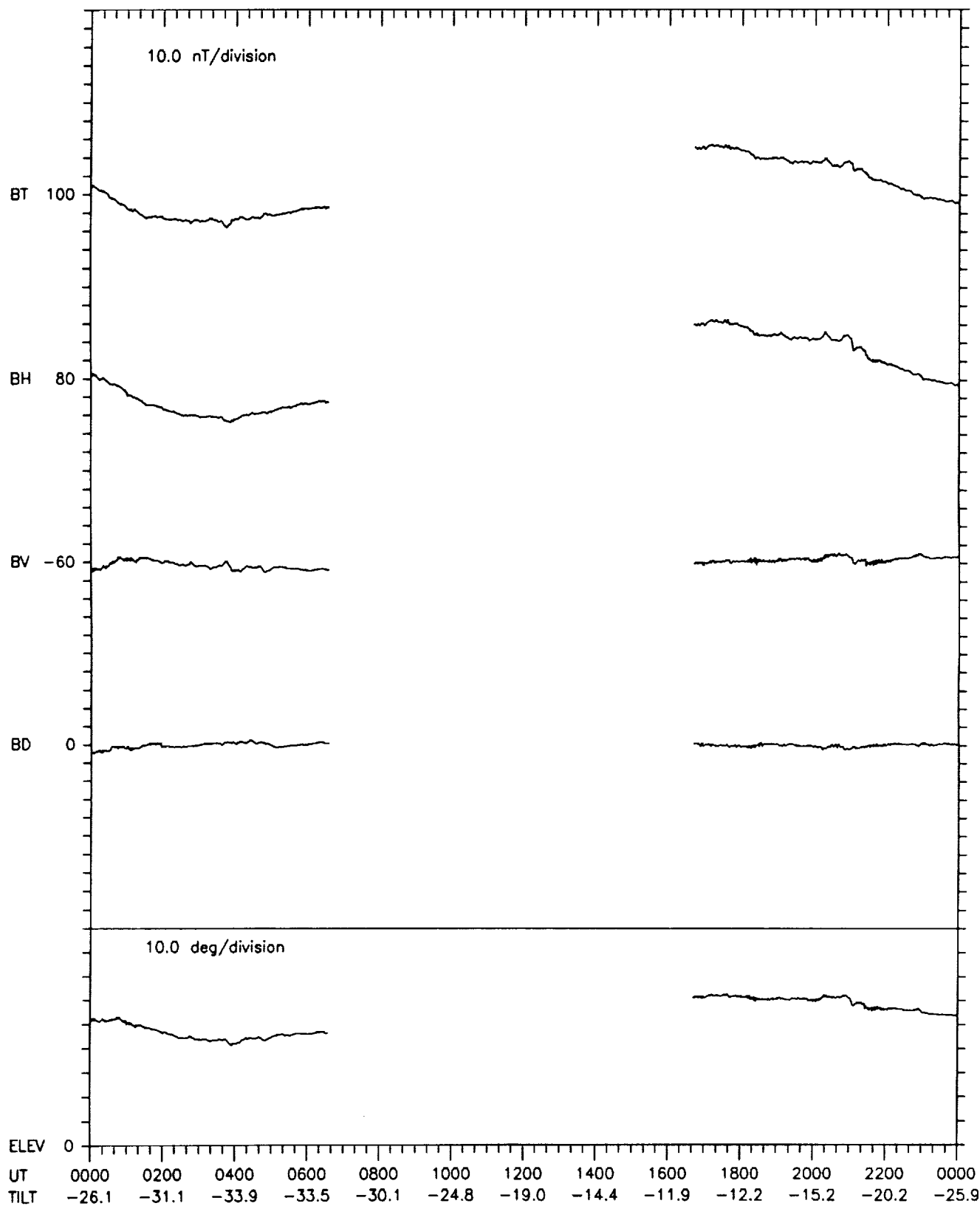
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TILT	-26.2	-31.2	-34.0	-33.6	-30.2	-24.8	-19.1	-14.5	-12.0	-12.3	-15.3	-20.3	-26.1

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 2 JAN 2

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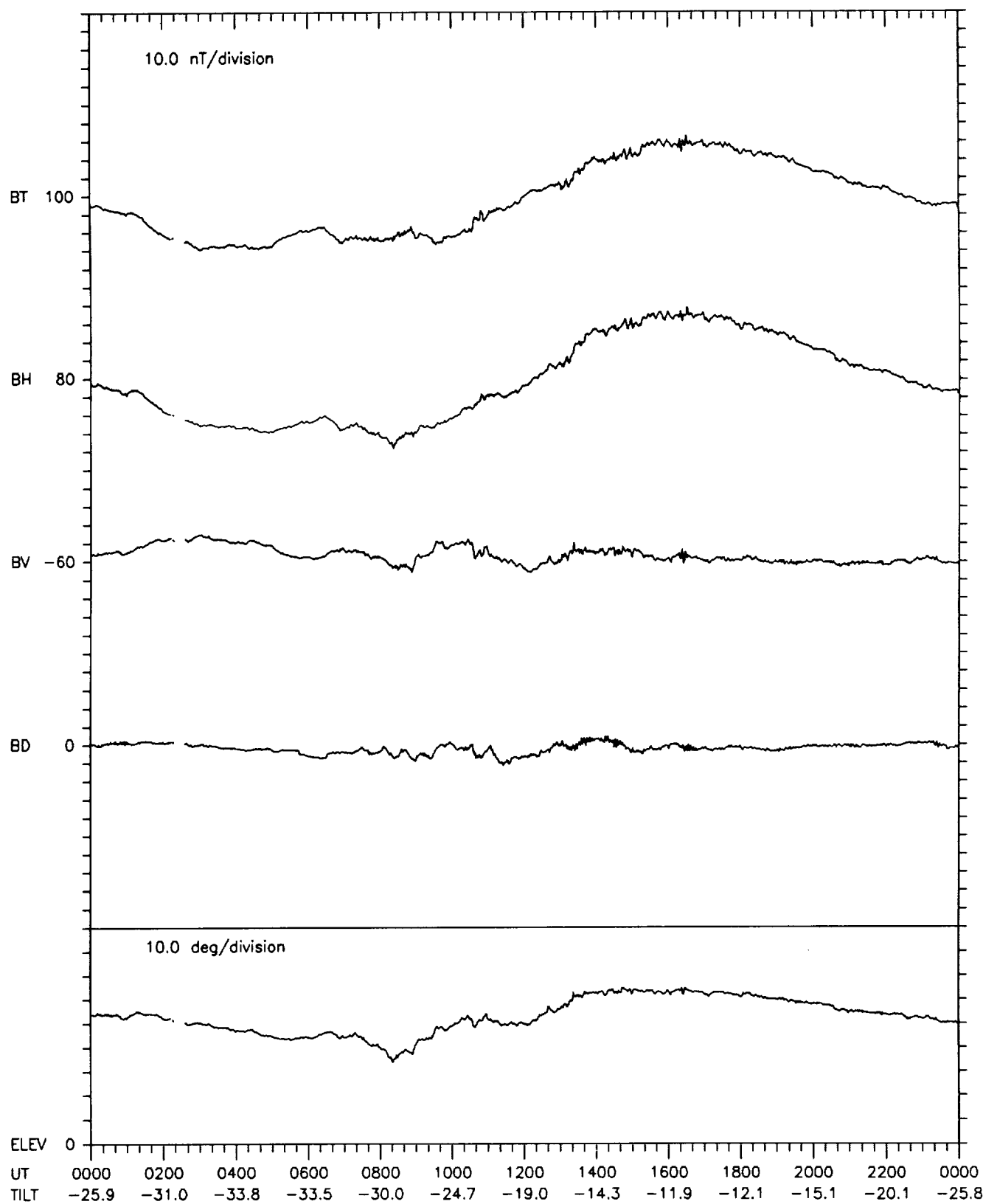
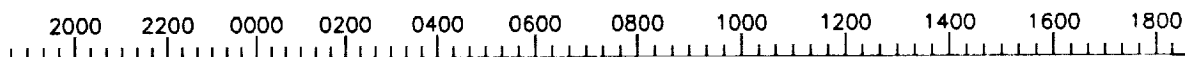


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1983 DAY 3 JAN 3

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

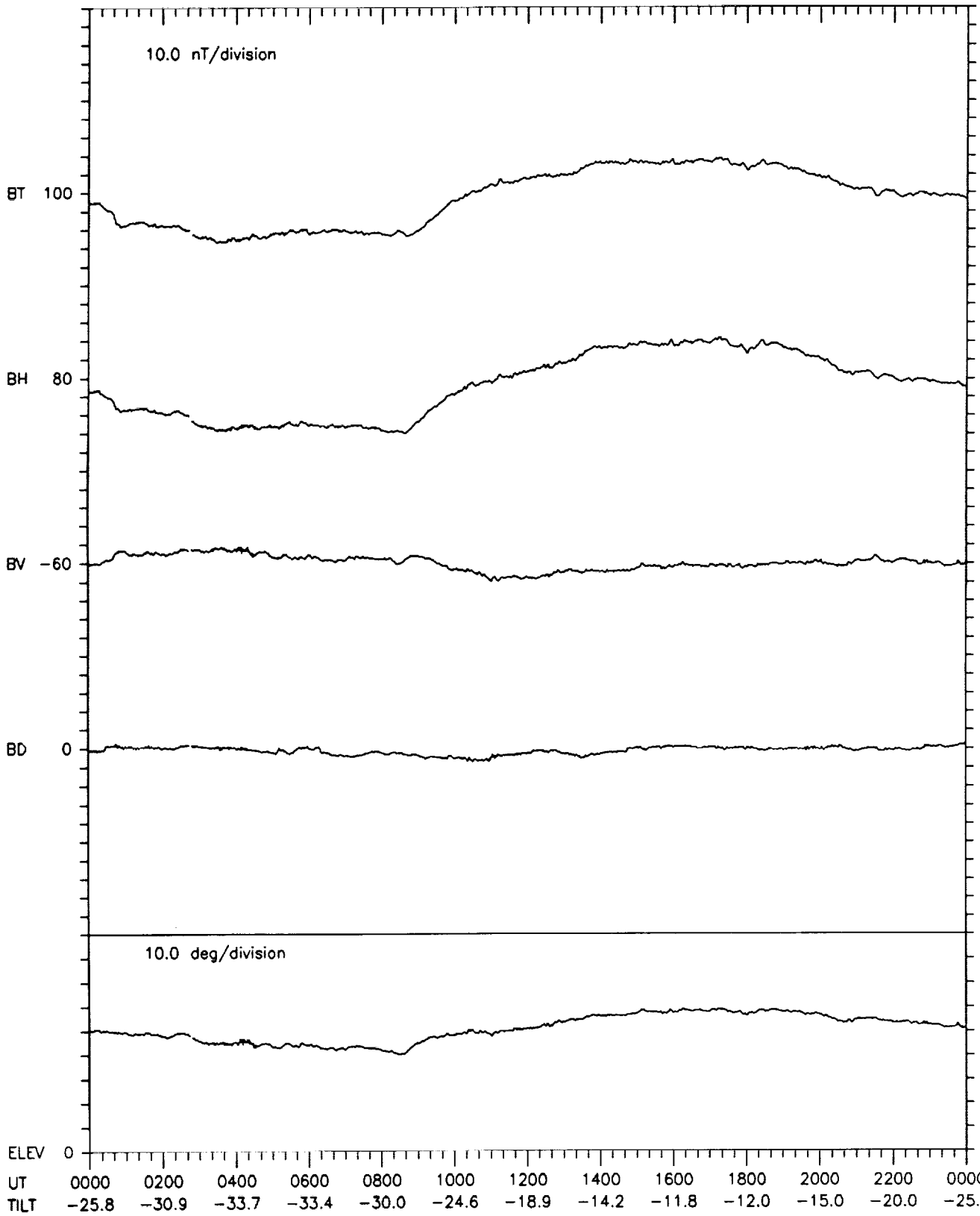
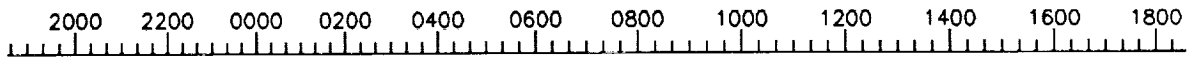


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1983 DAY 4 JAN 4

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5



ELEV 0

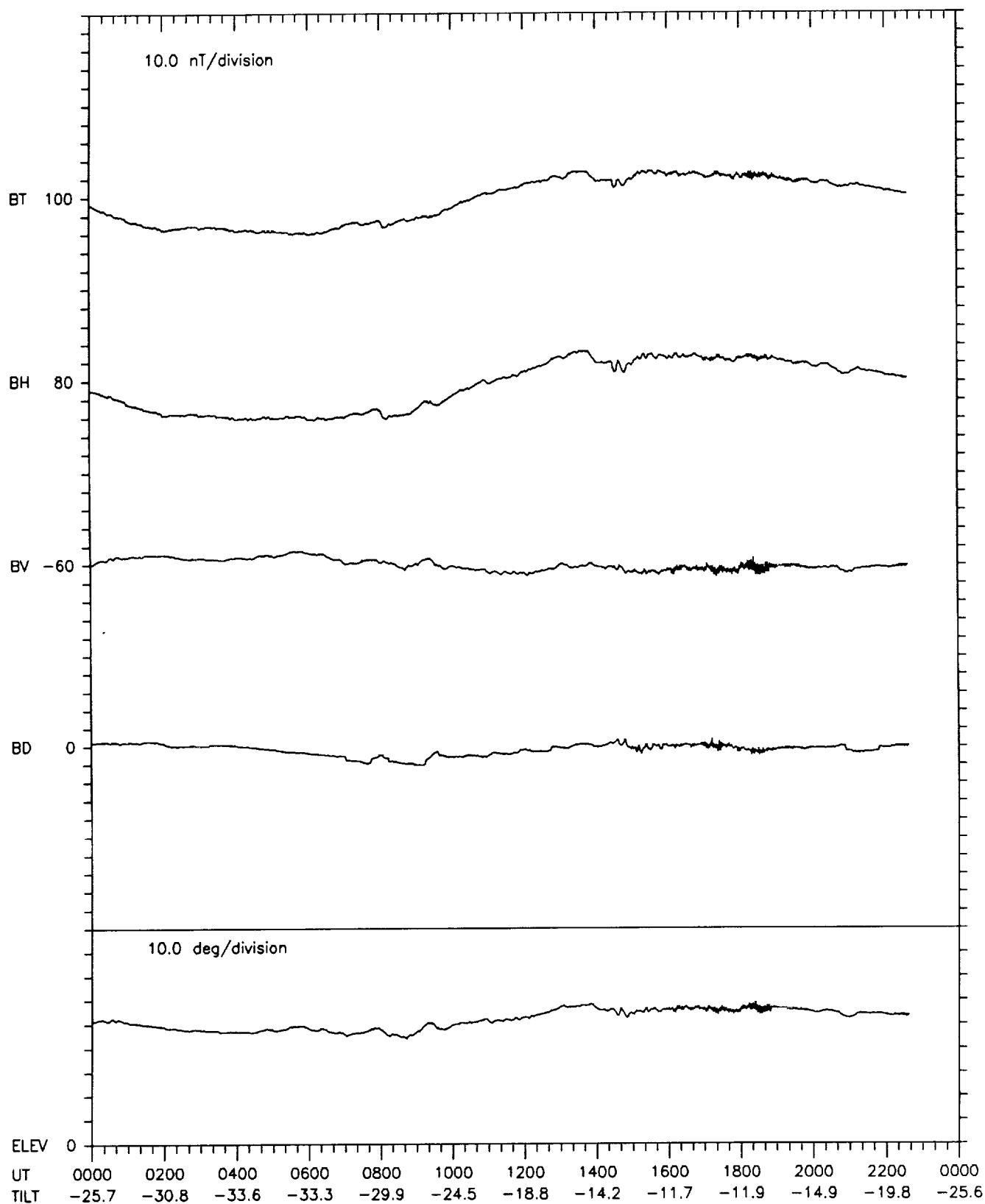
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
TILT -25.8 -30.9 -33.7 -33.4 -30.0 -24.6 -18.9 -14.2 -11.8 -12.0 -15.0 -20.0 -25.7

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 5 JAN 5

(GEOLON, MAGLAT) = ( -74.7, 11.2)

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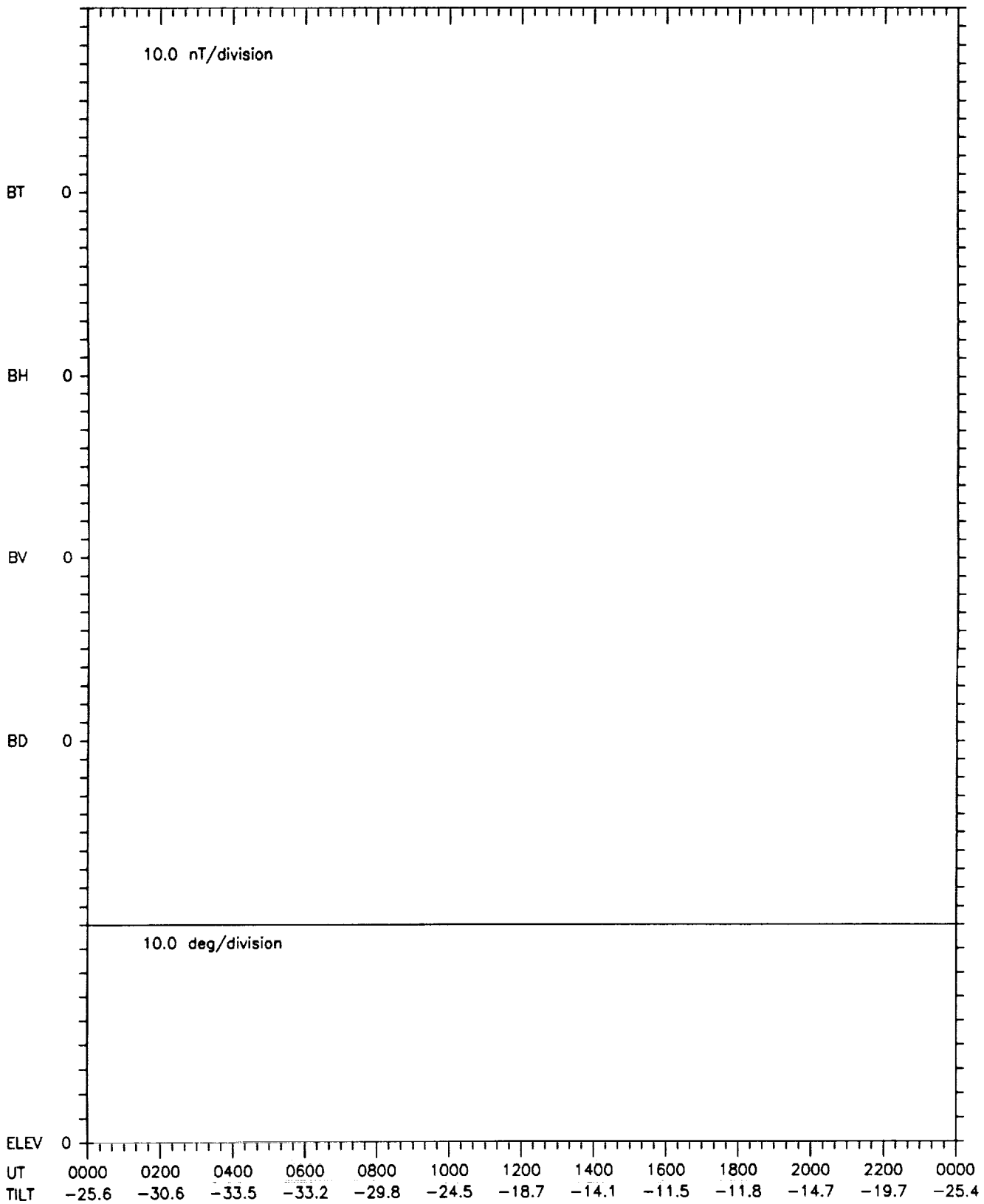


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 6 JAN 6

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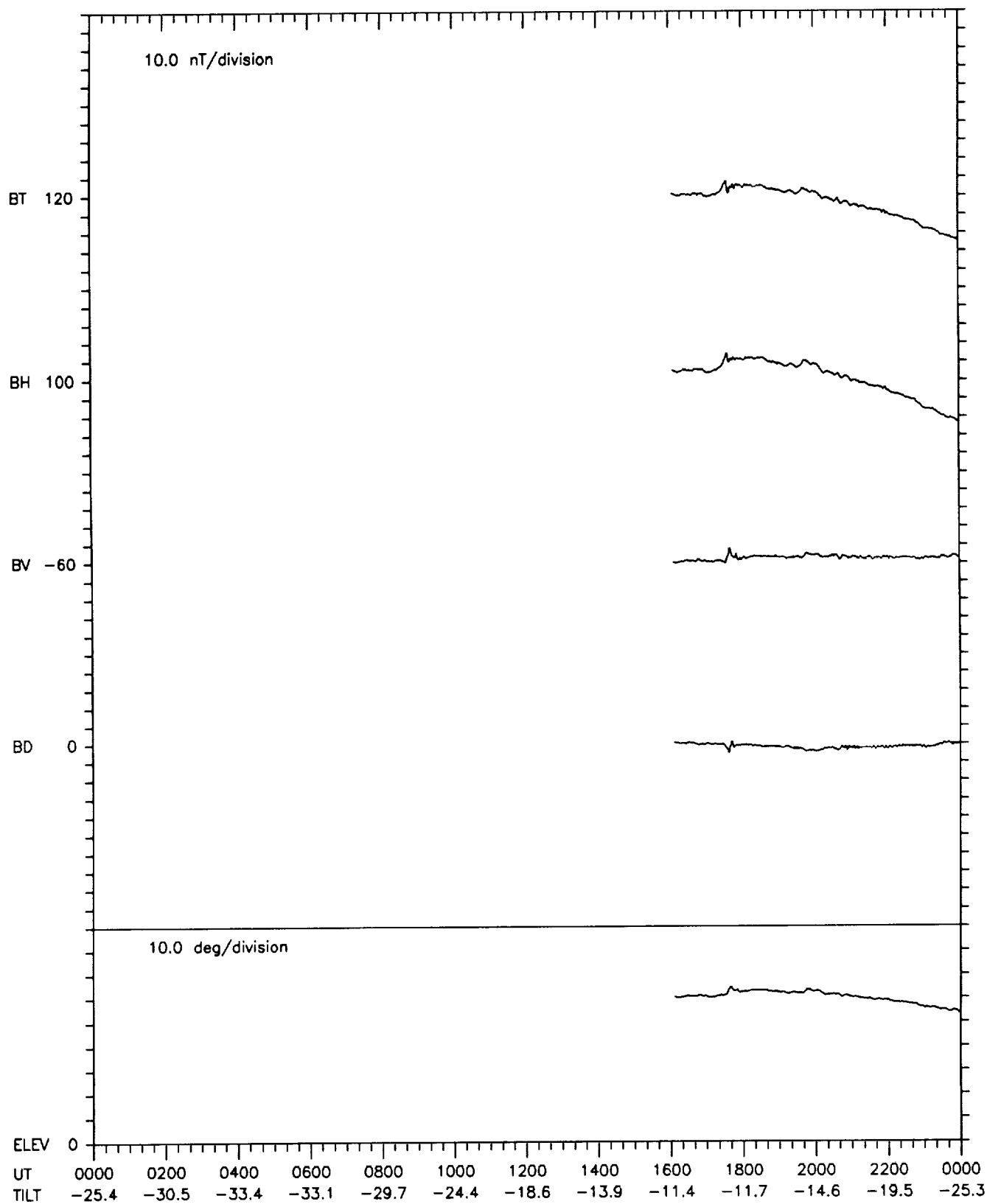
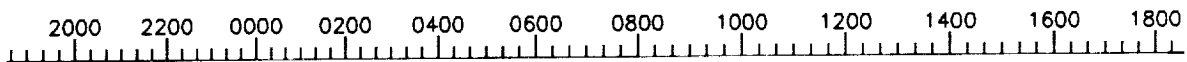


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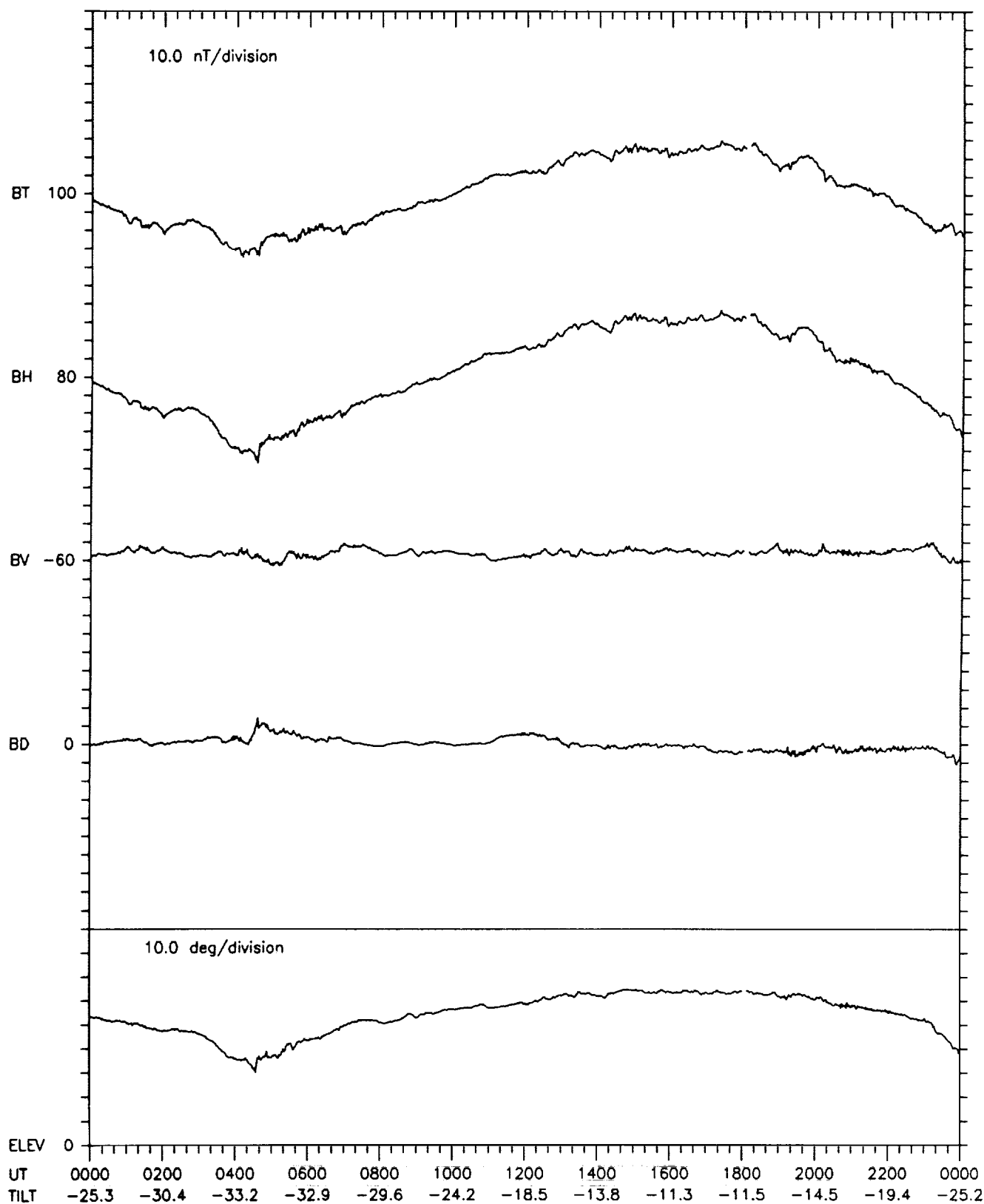
MLT 5



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

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(GEOLON, MAGLAT) = ( -74.7, 11.2)

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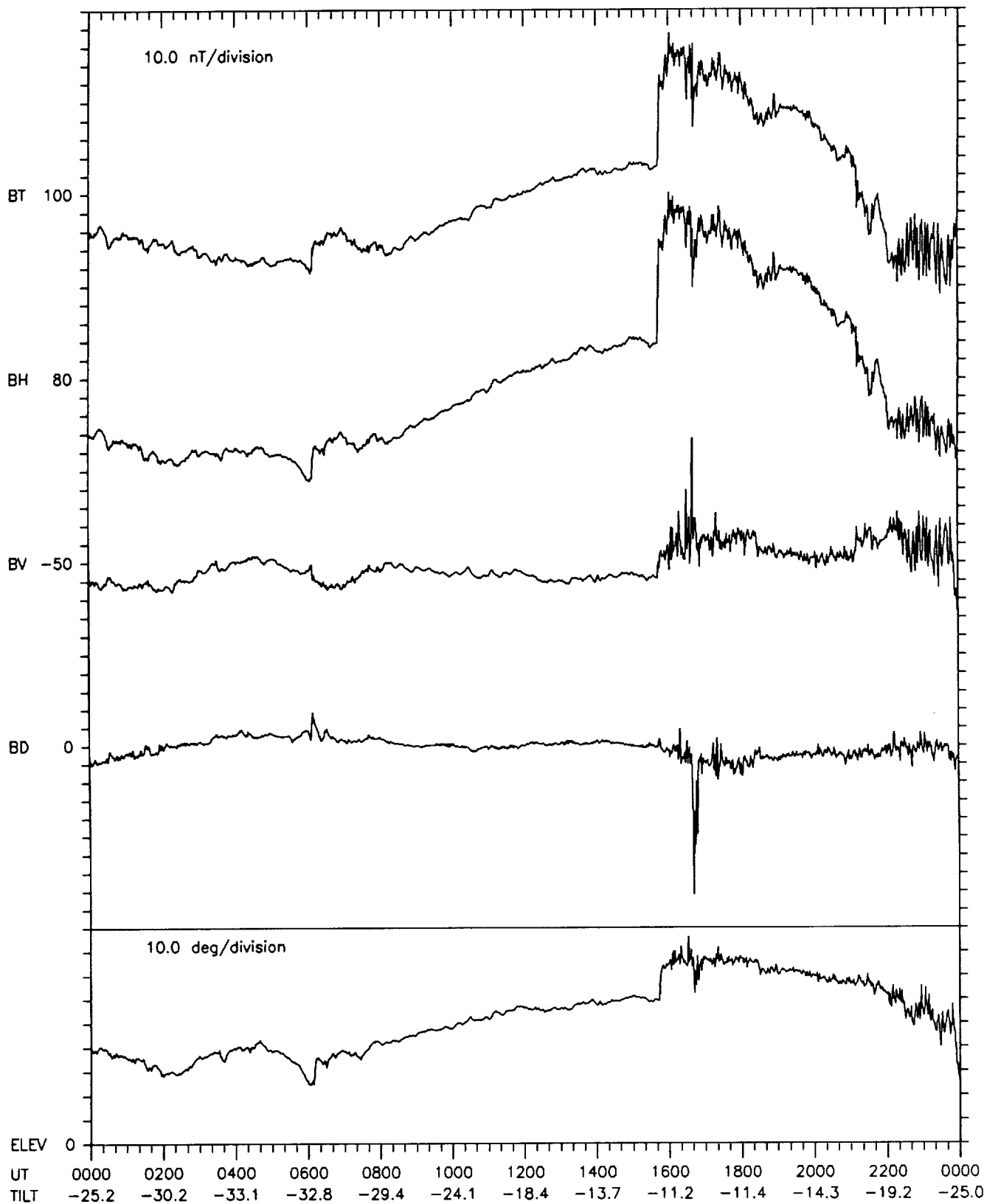
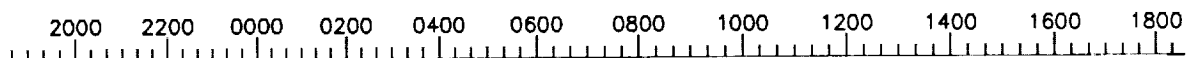


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1983 DAY 9 JAN 9

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

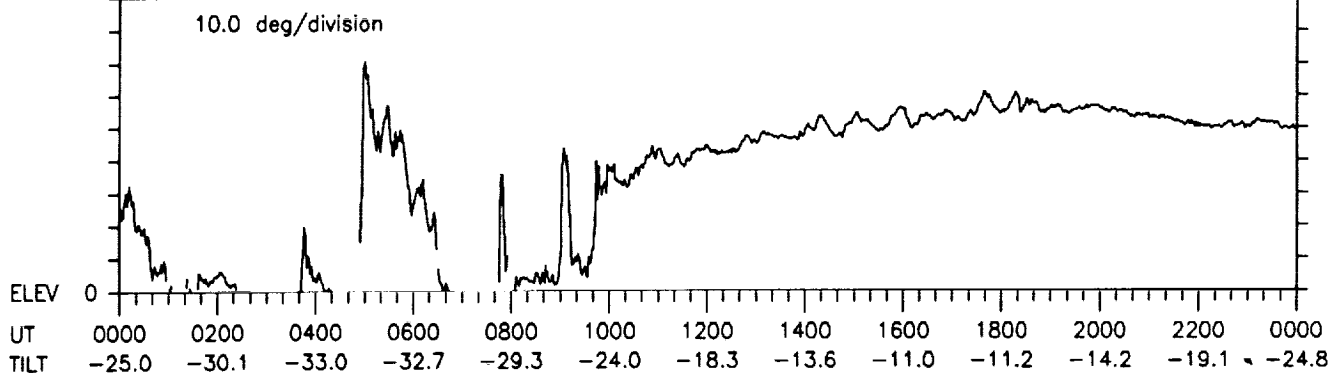
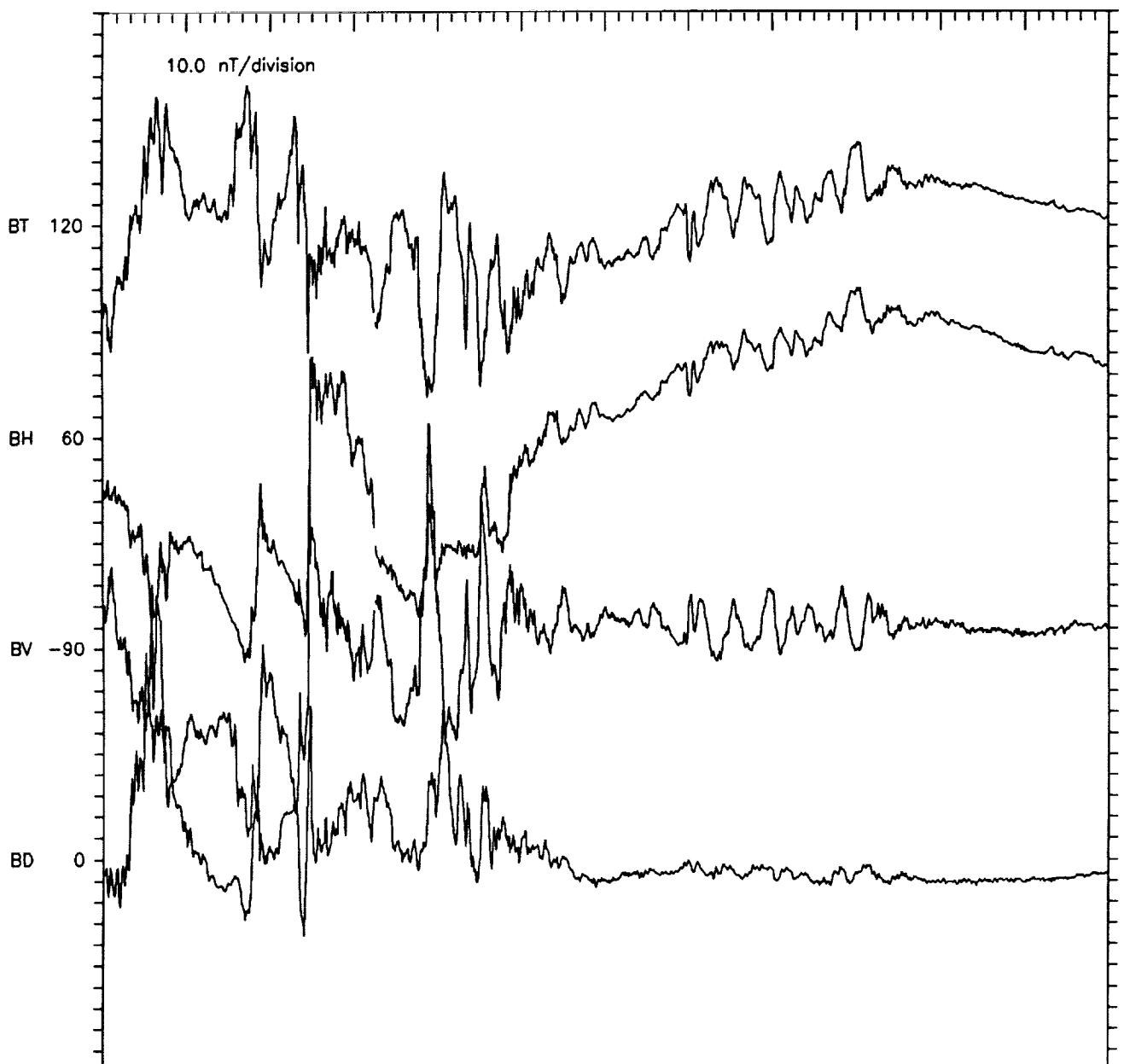


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 10 JAN 10

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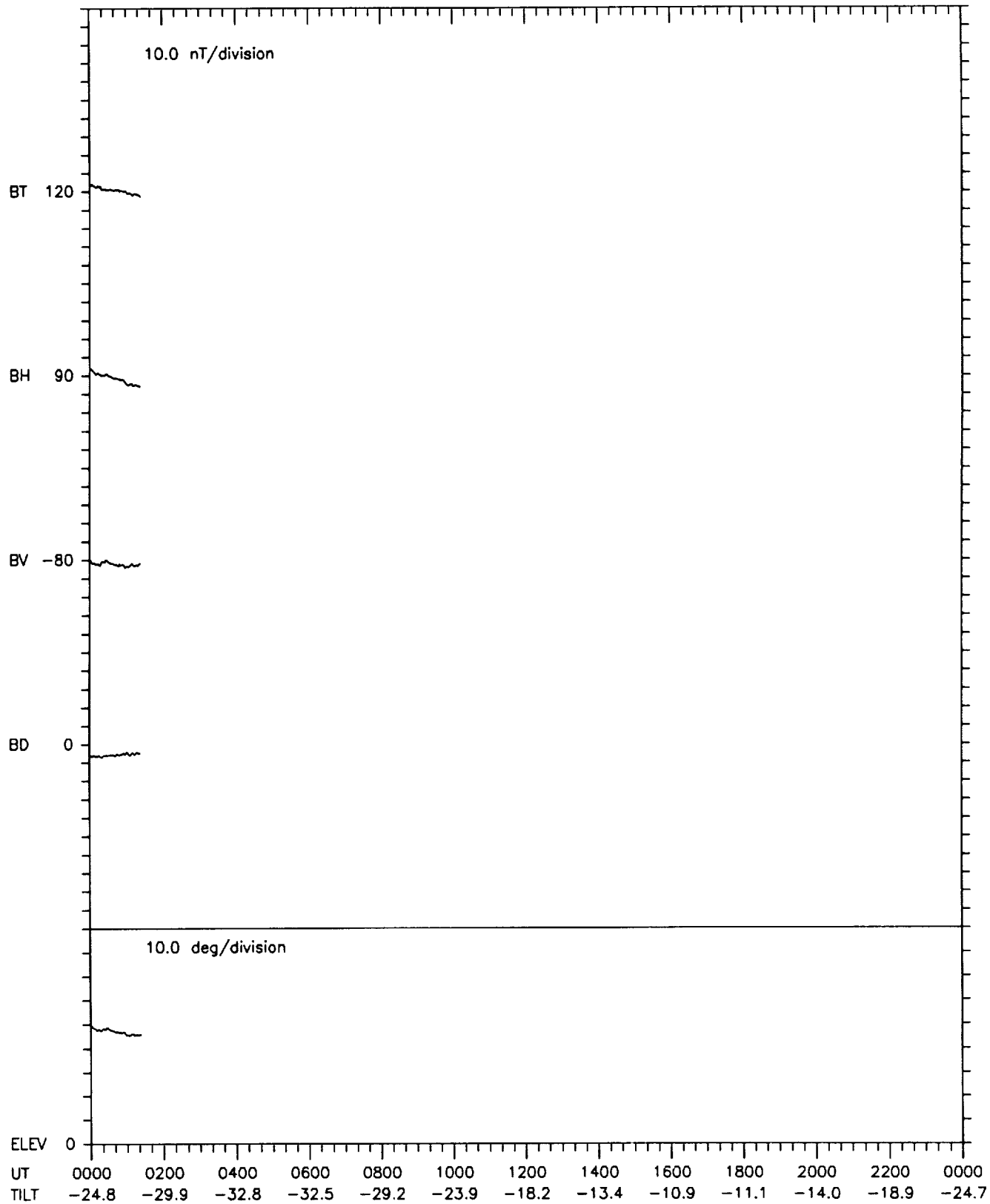
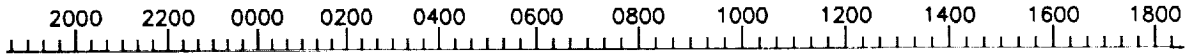


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1983 DAY 11 JAN 11

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

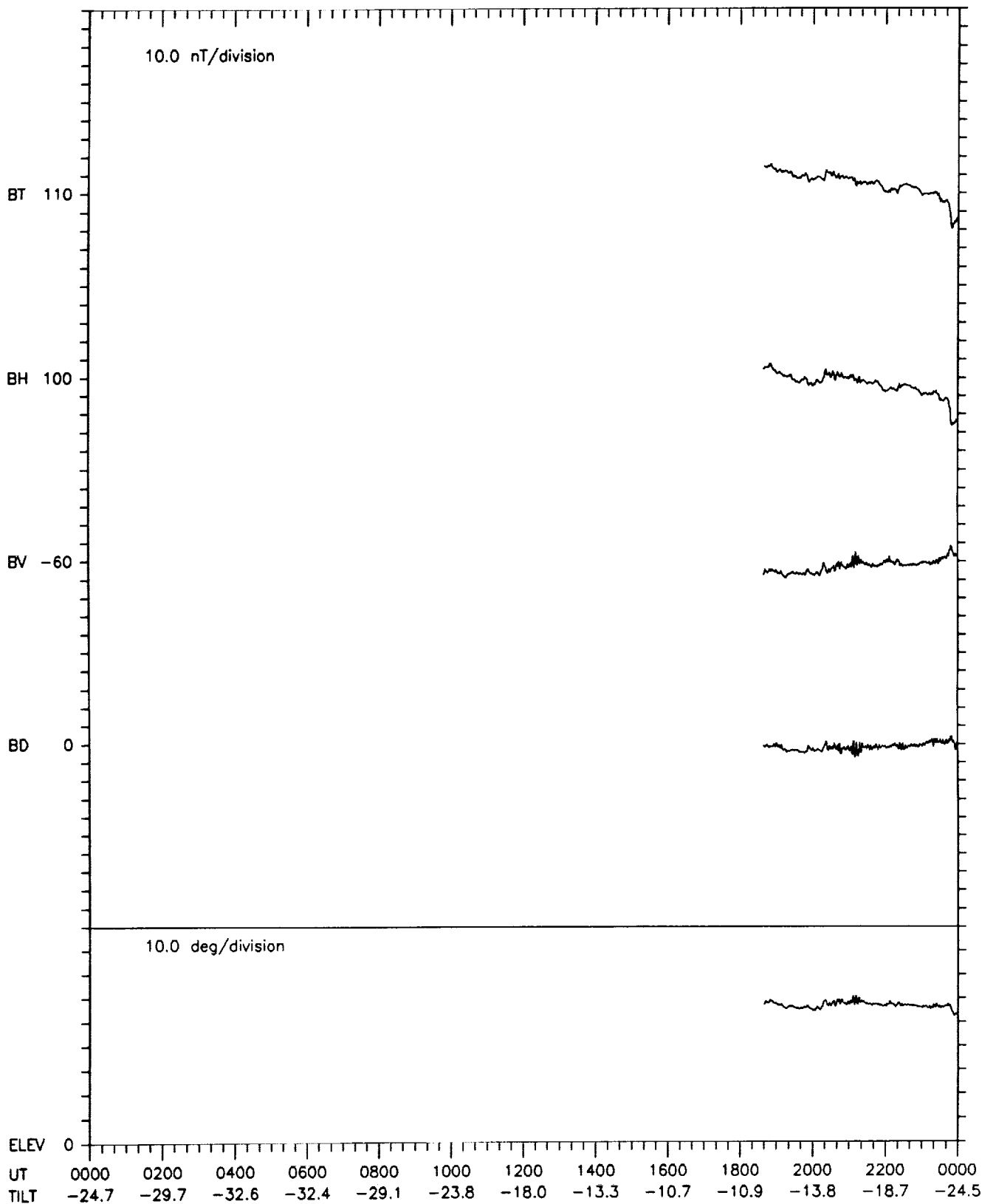
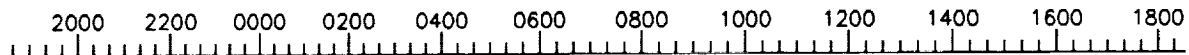


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1983 DAY 12 JAN 12

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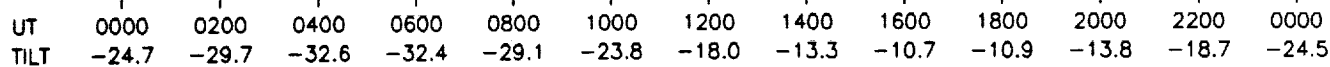
MLT 5



10.0 nT/division

10.0 deg/division

ELEV 0

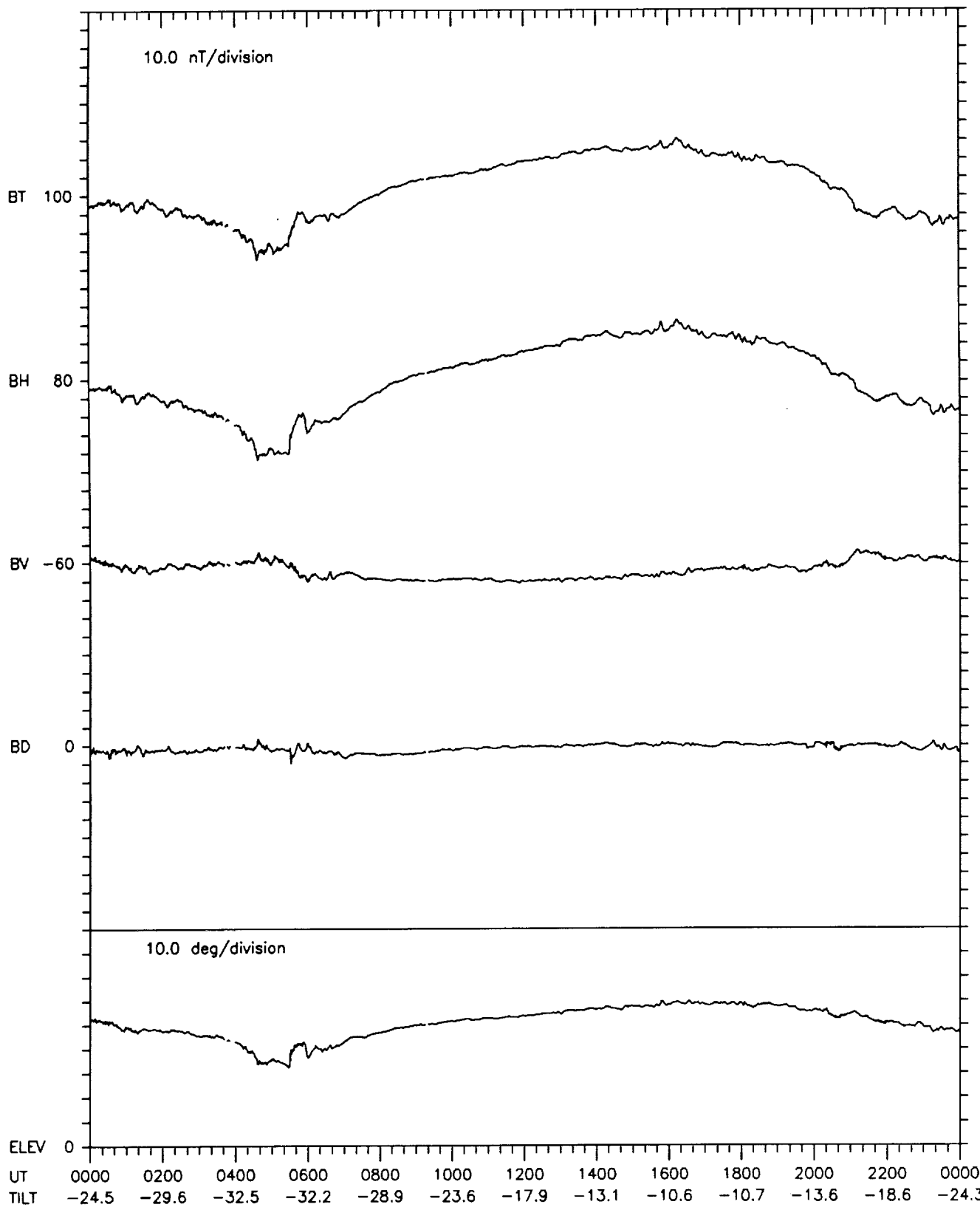
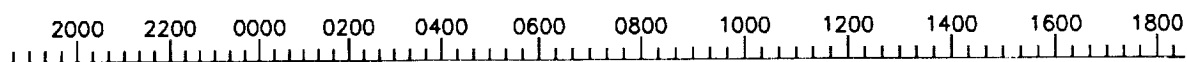


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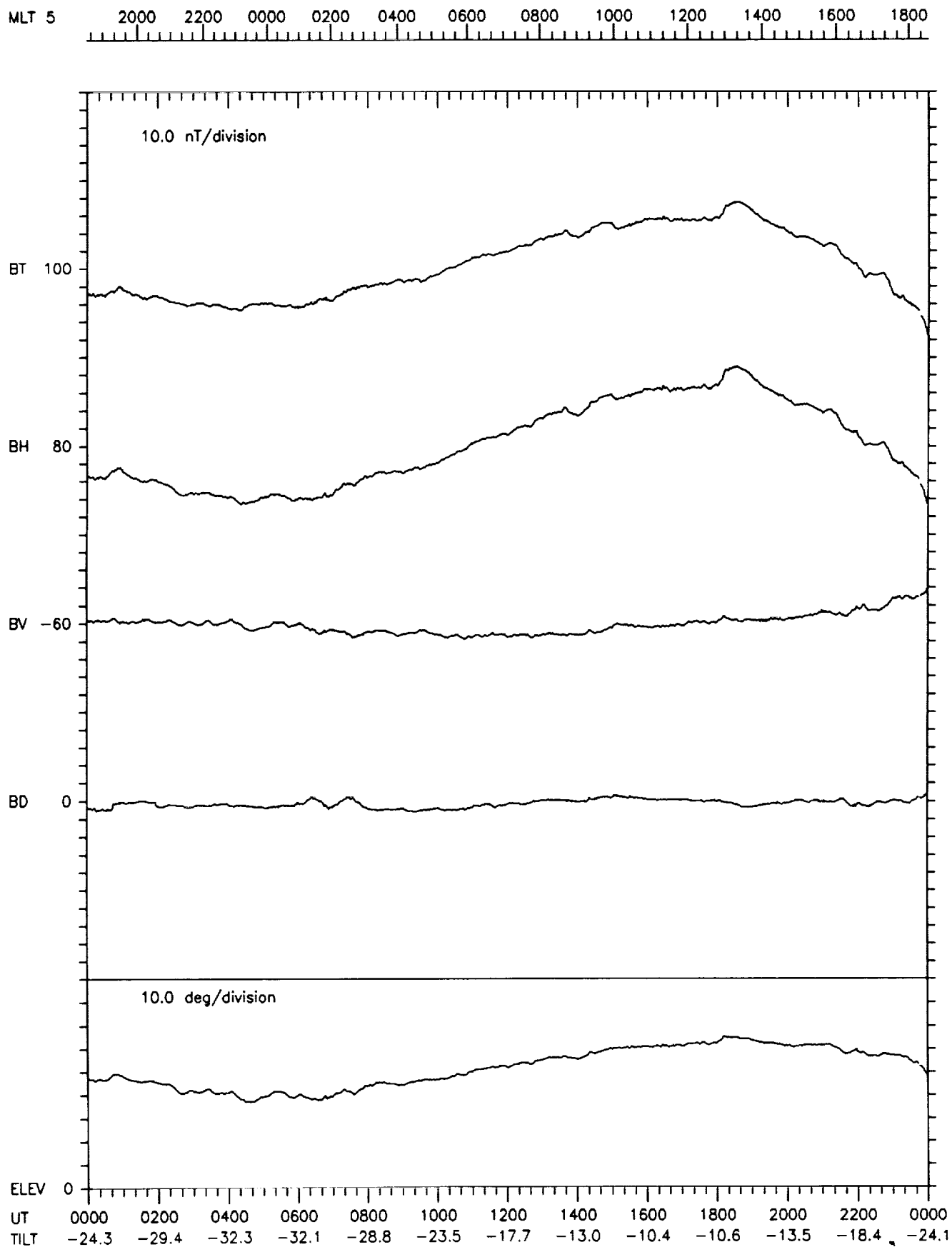
MLT 5



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 14 JAN 14

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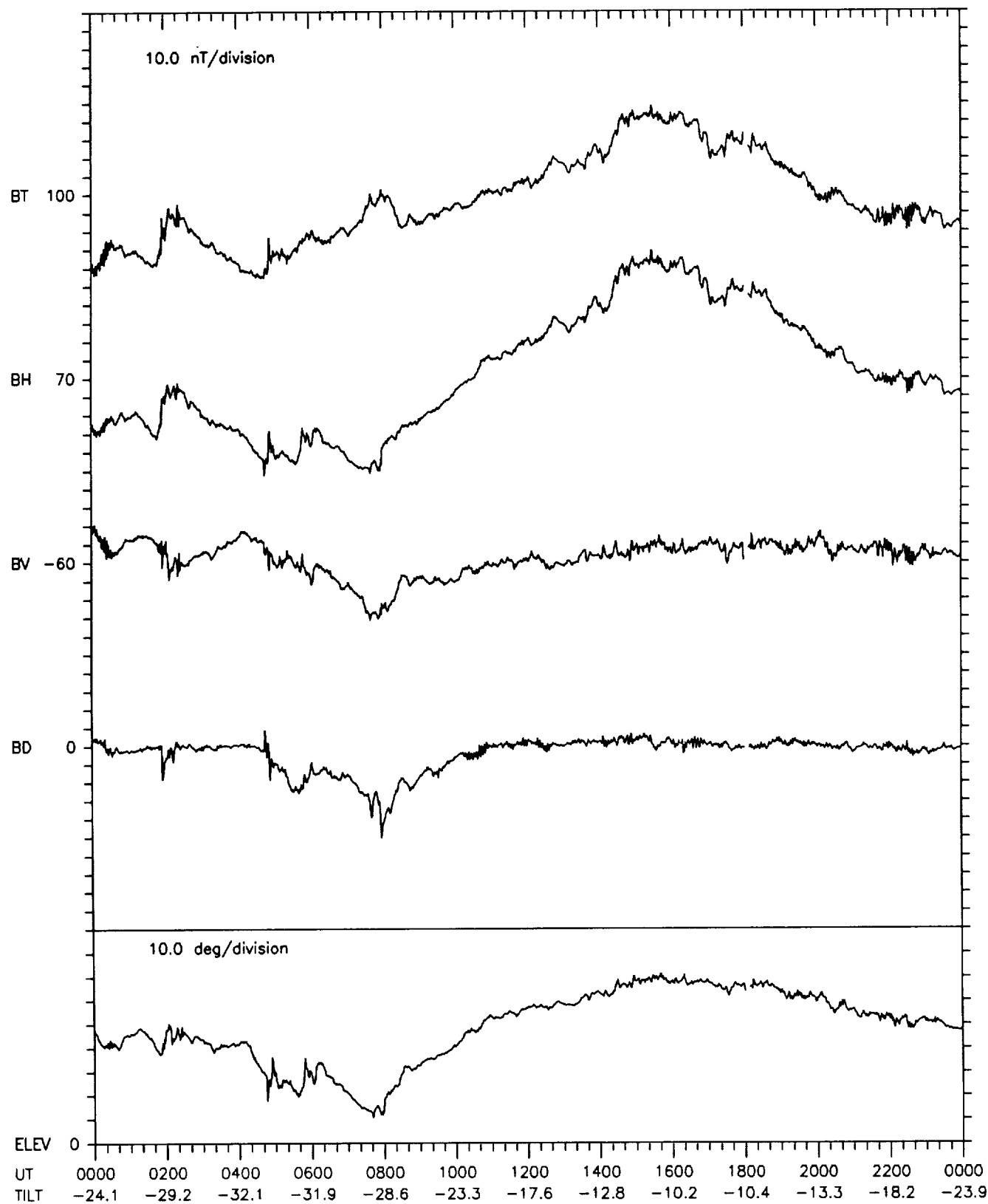


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 15 JAN 15

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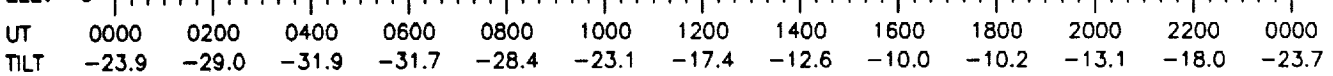
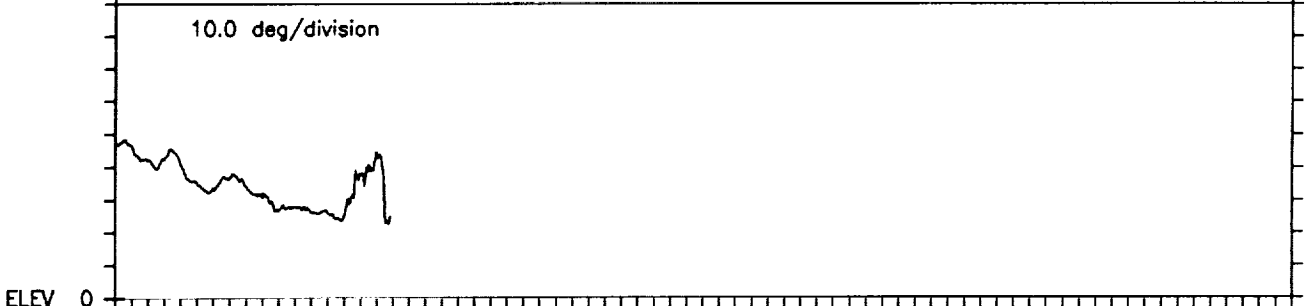
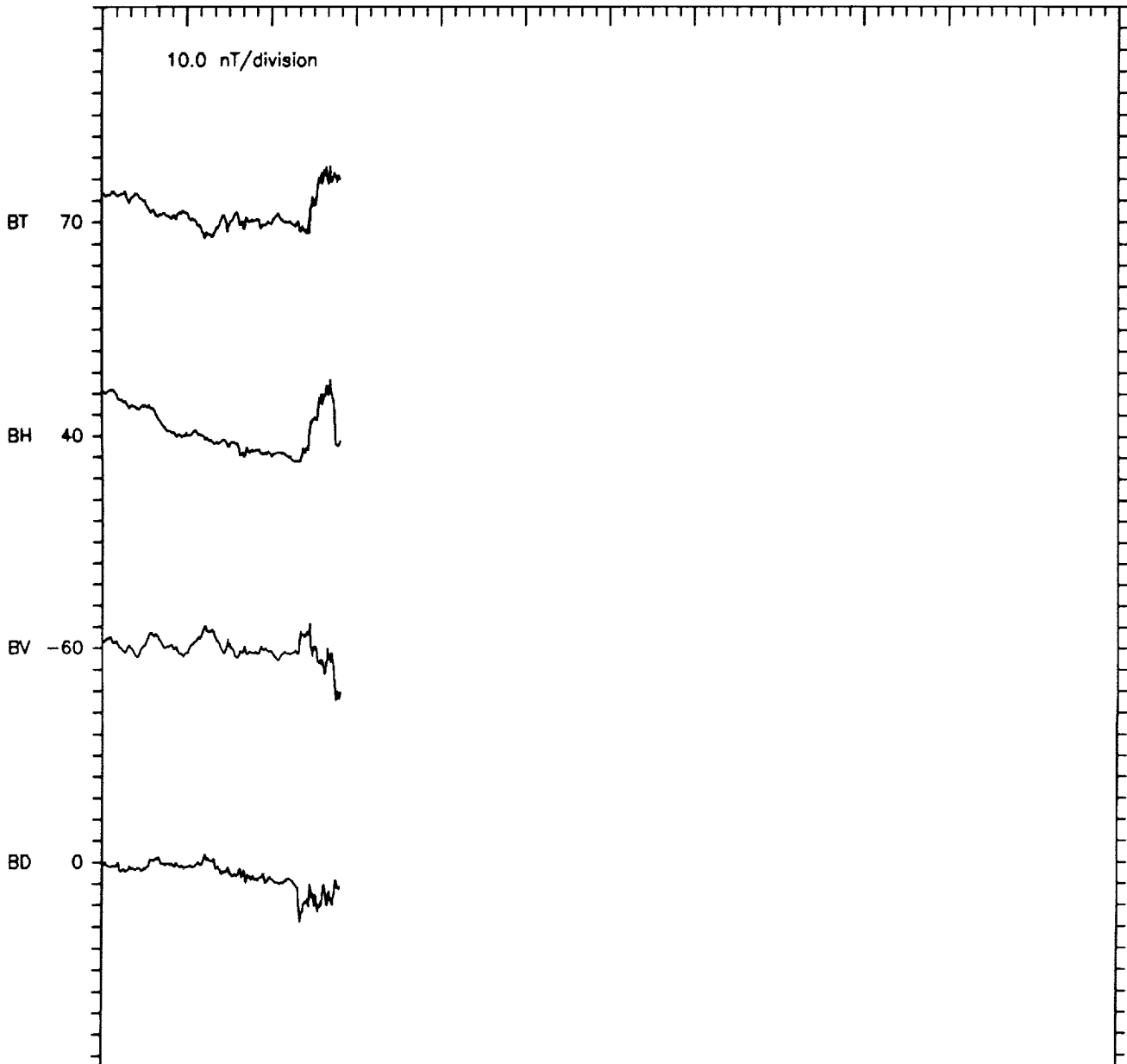
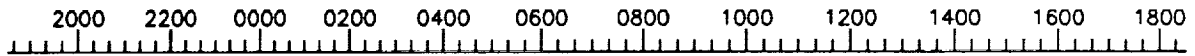


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MLT 5



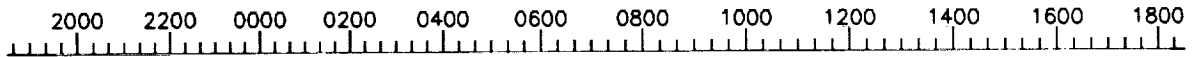


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1983 DAY 17 JAN 17

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5



10.0 nT/division

BT 90

BH 60

BV -60

BD 0

10.0 deg/division

ELEV 0

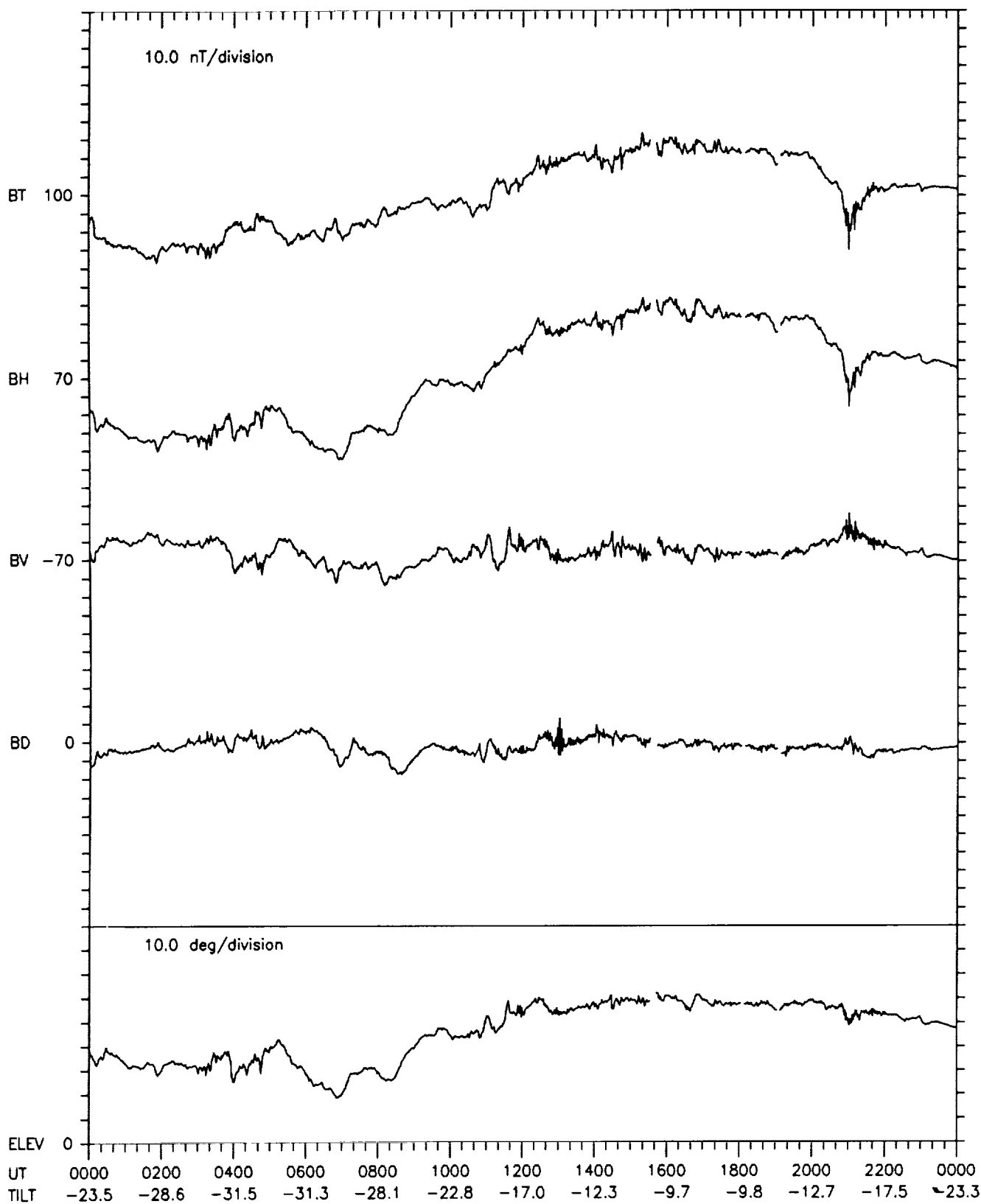
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# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 18 JAN 18

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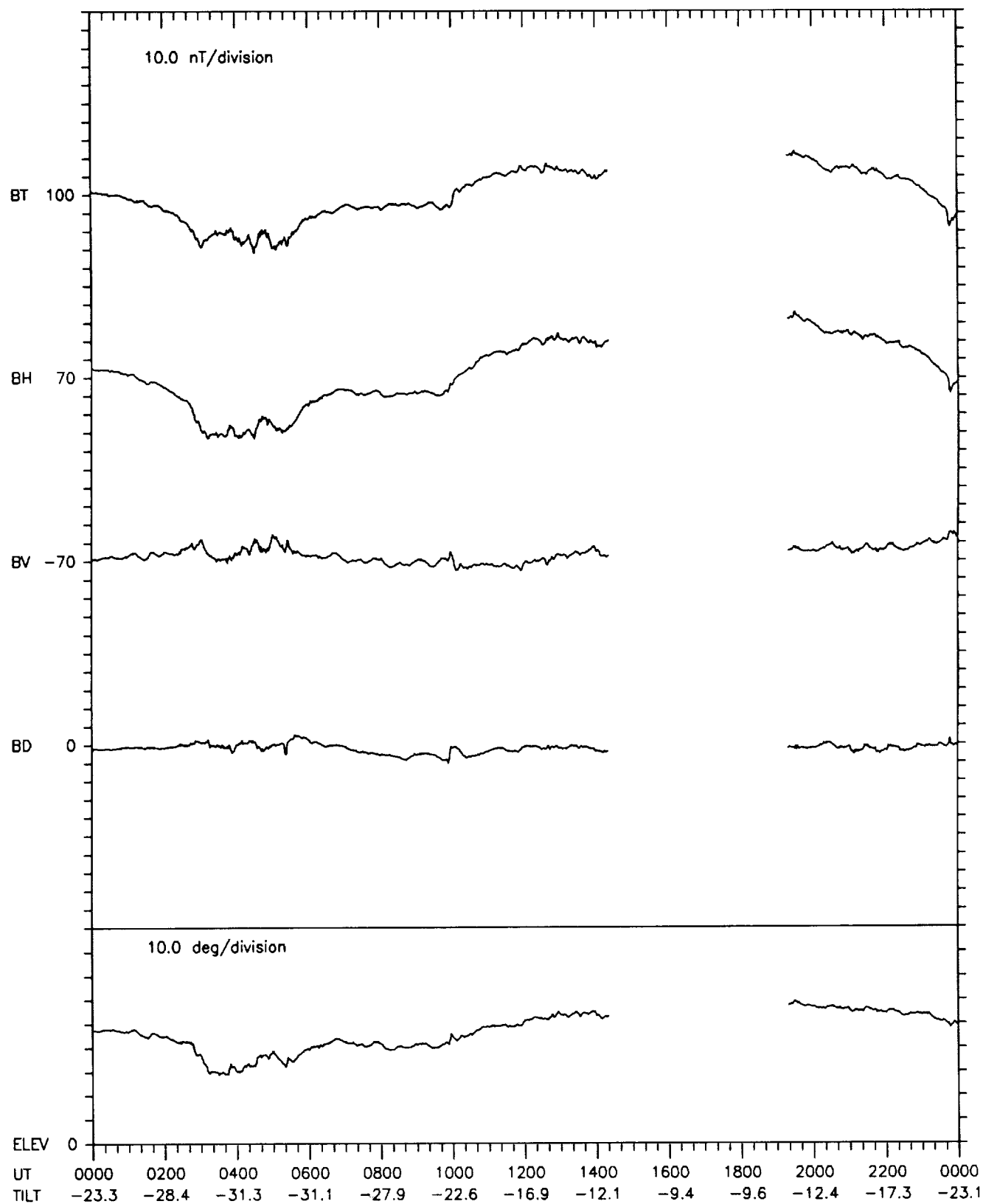
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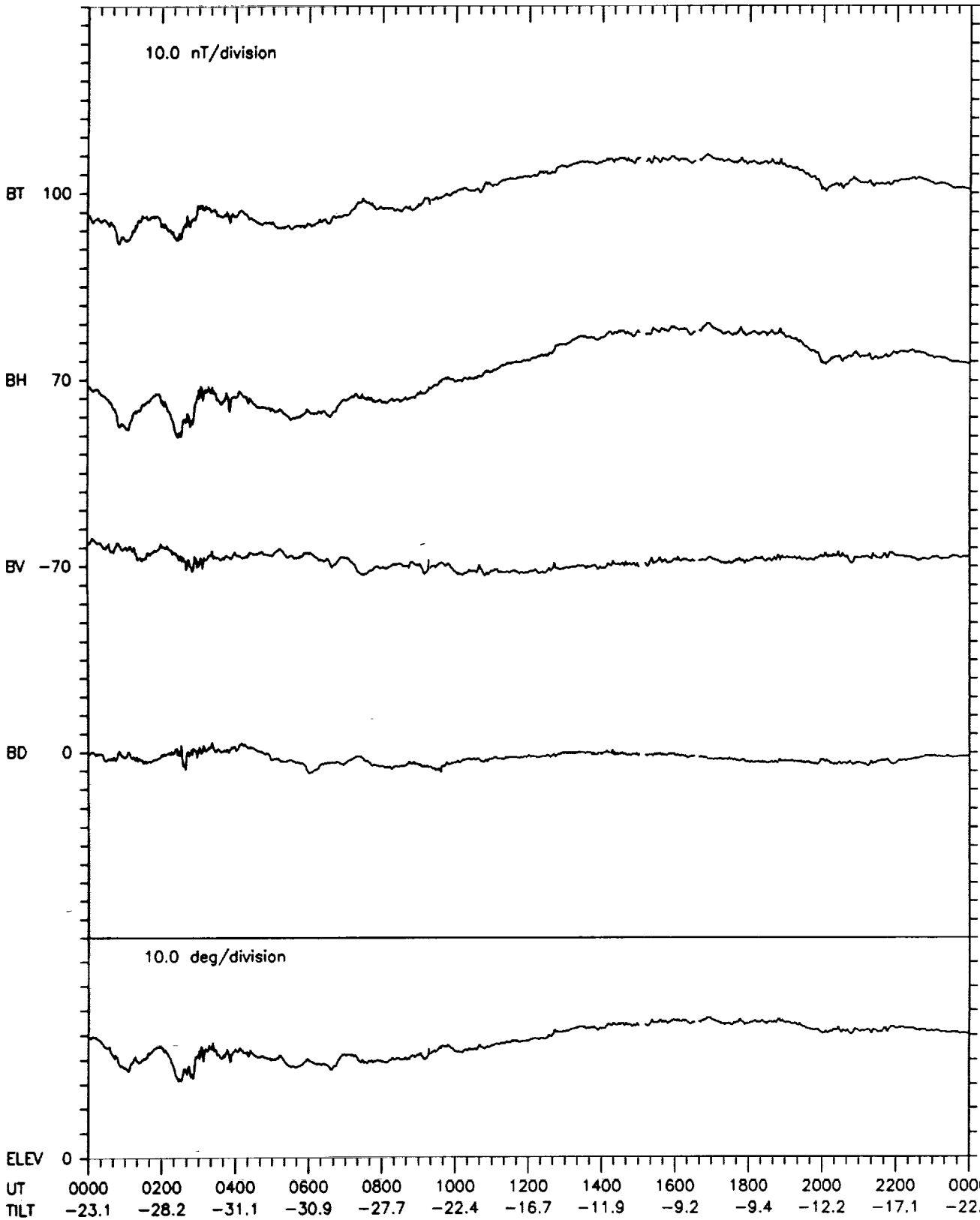
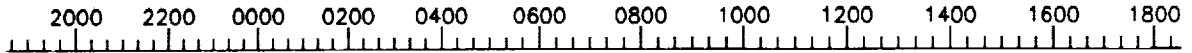


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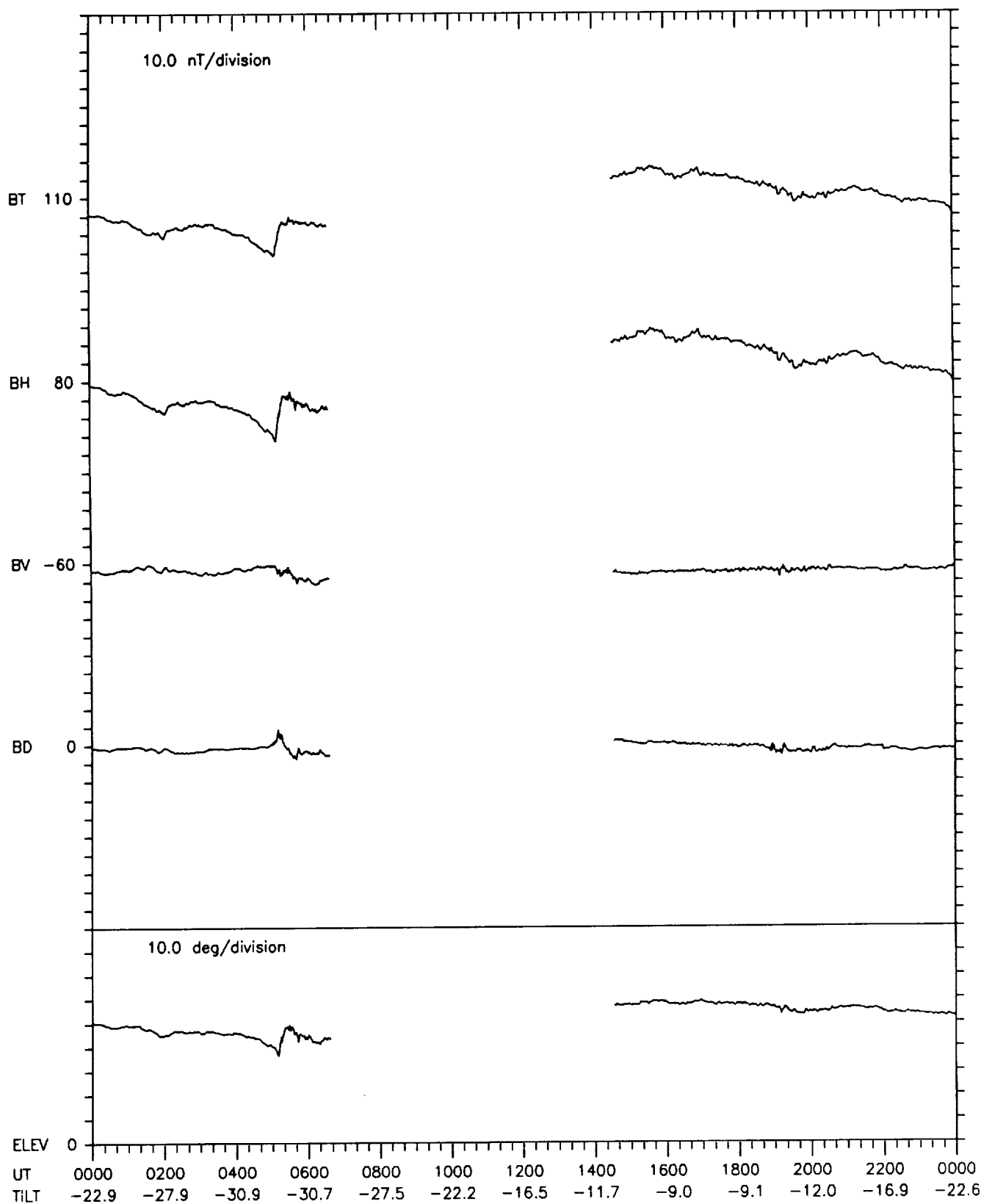


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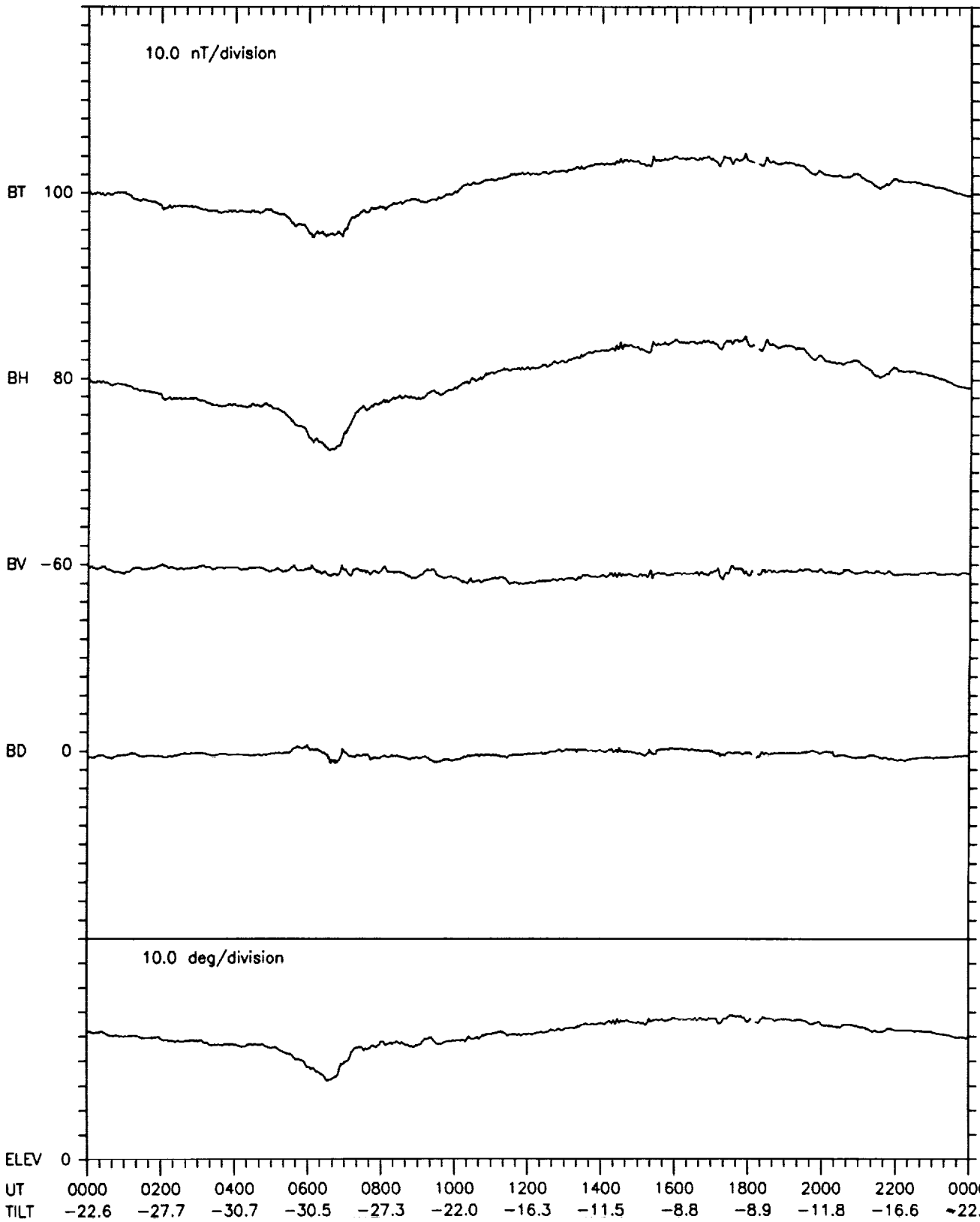
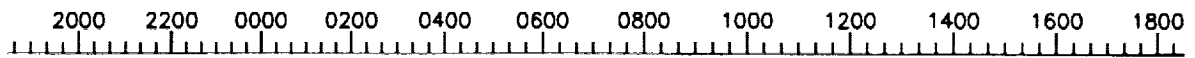


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1983 DAY 22 JAN 22

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MLT 5

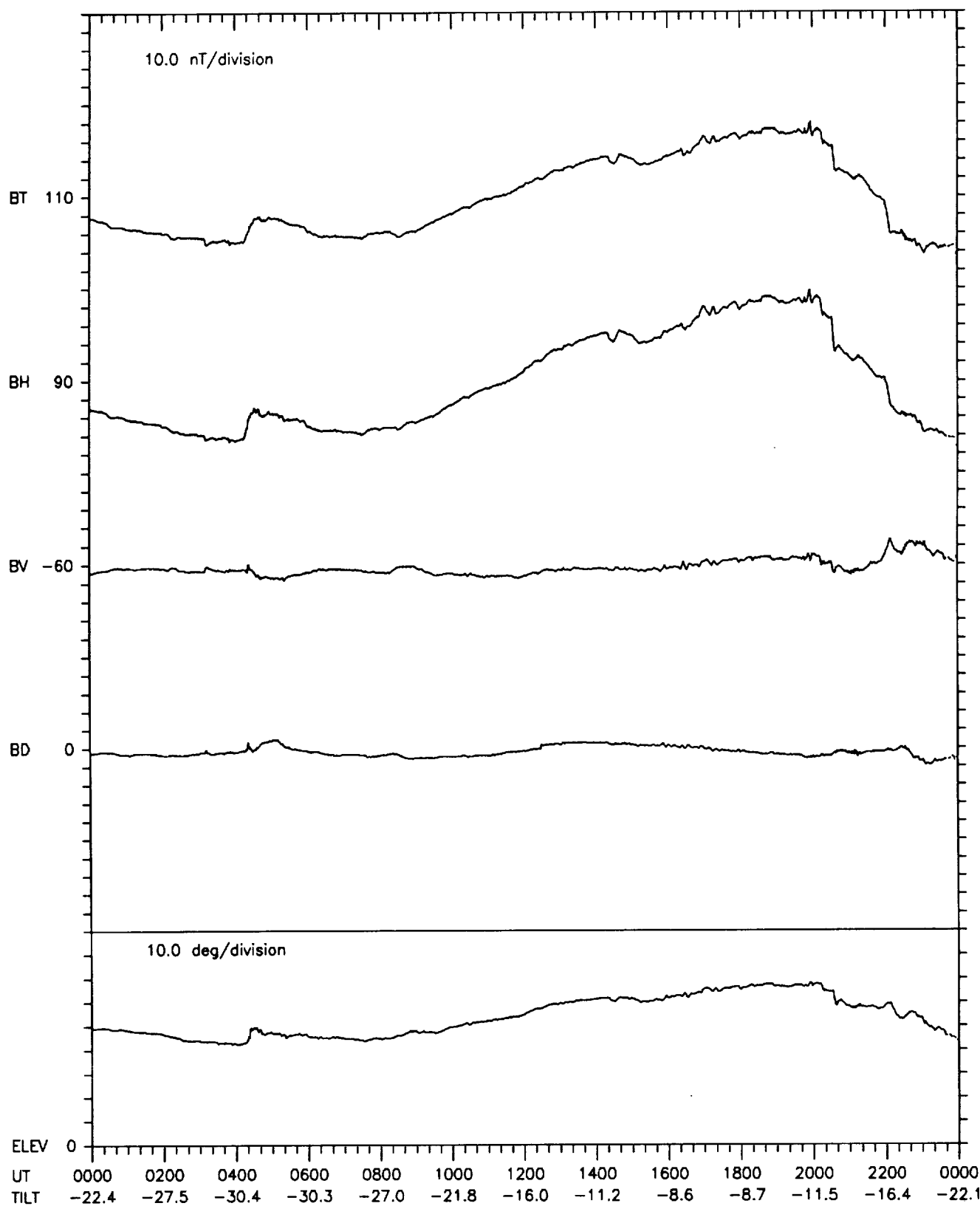
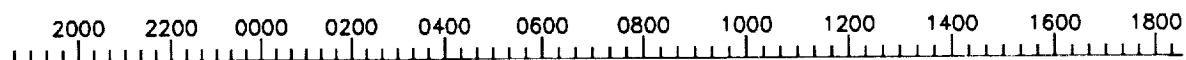


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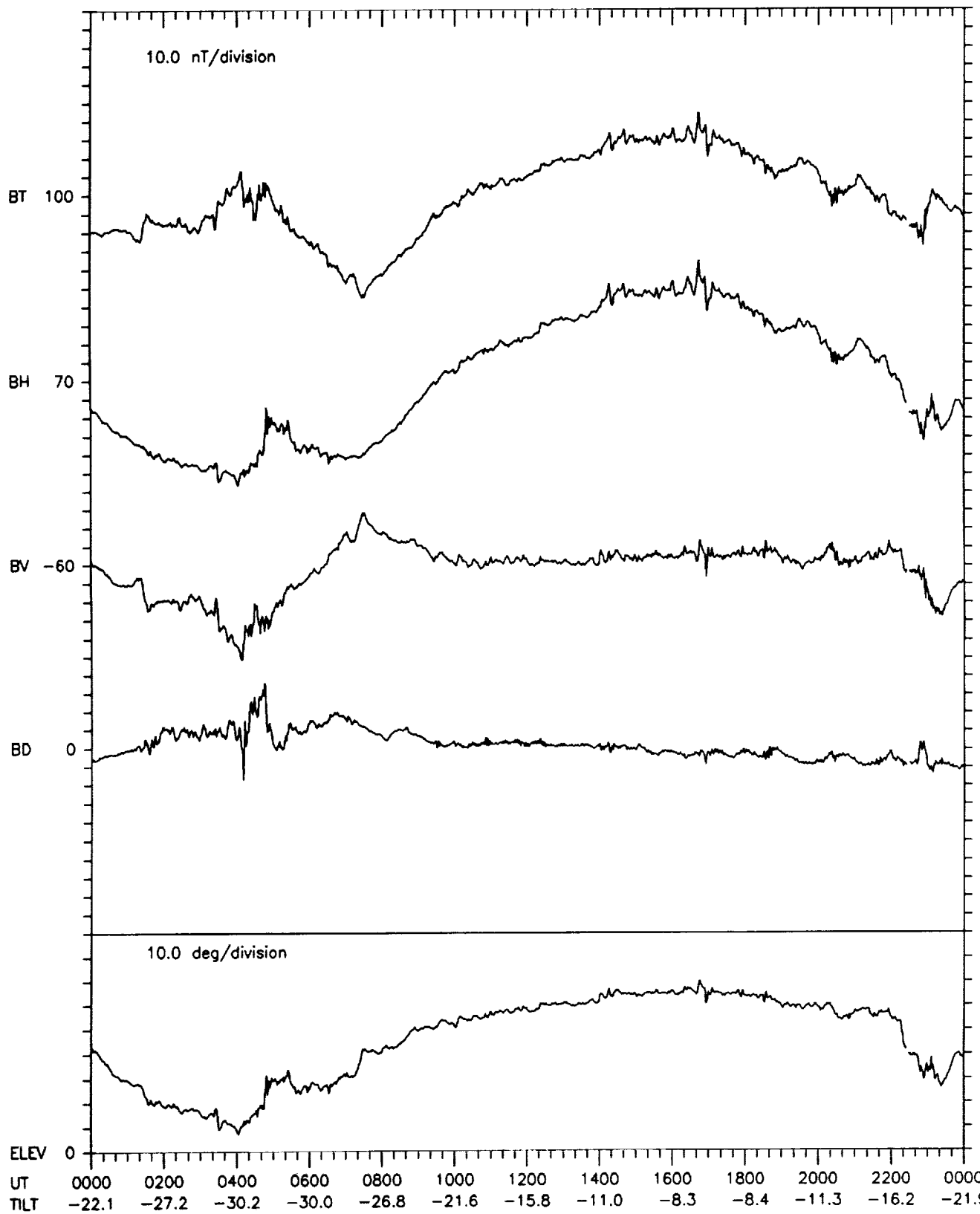


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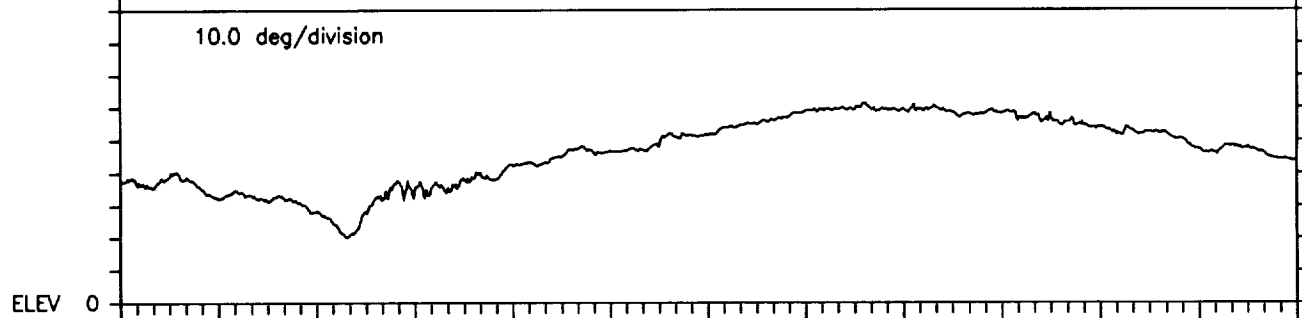
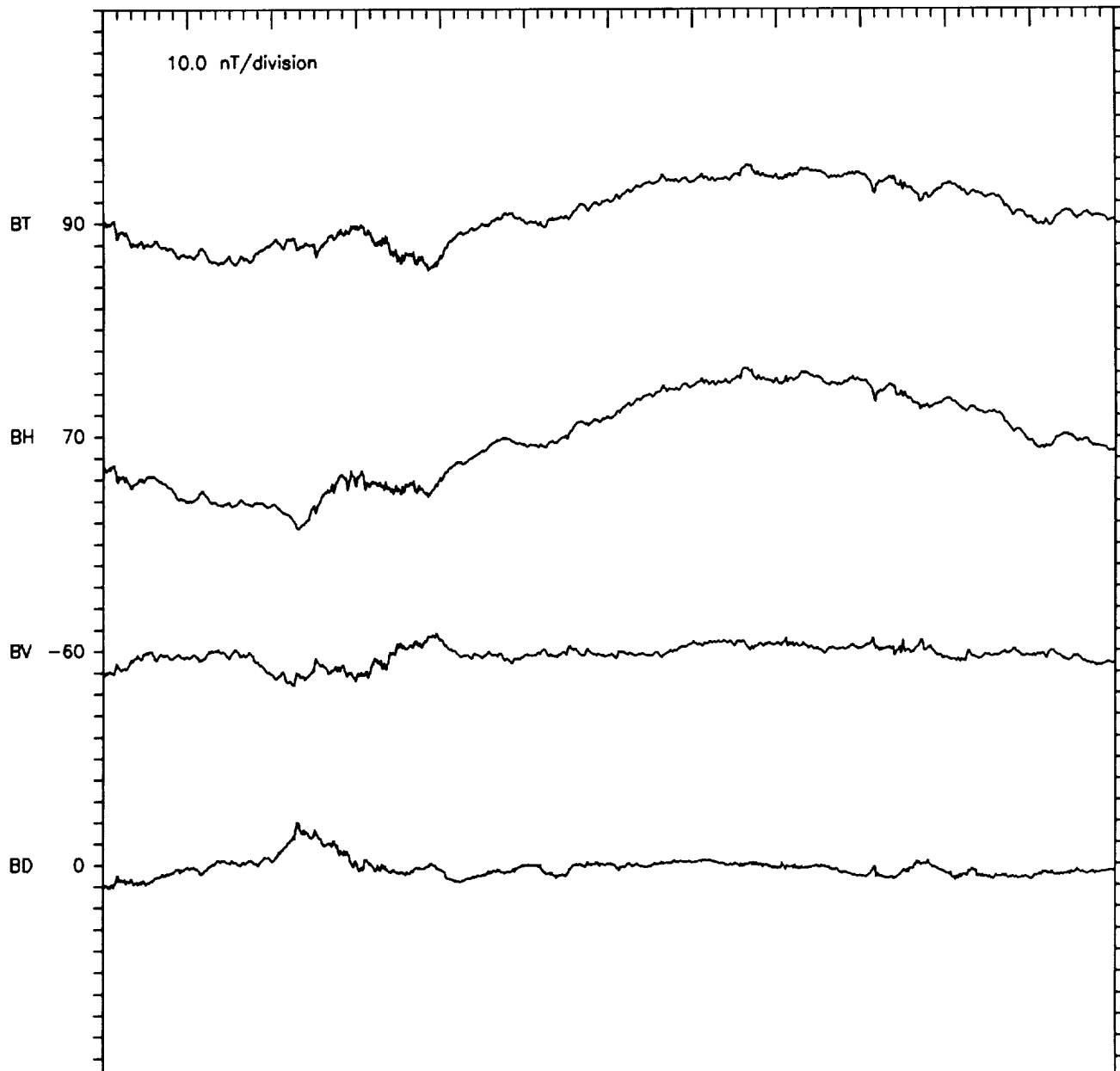
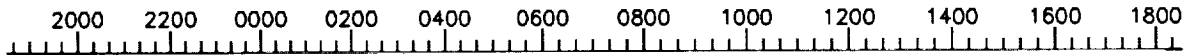


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1983 DAY 25 JAN 25

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5



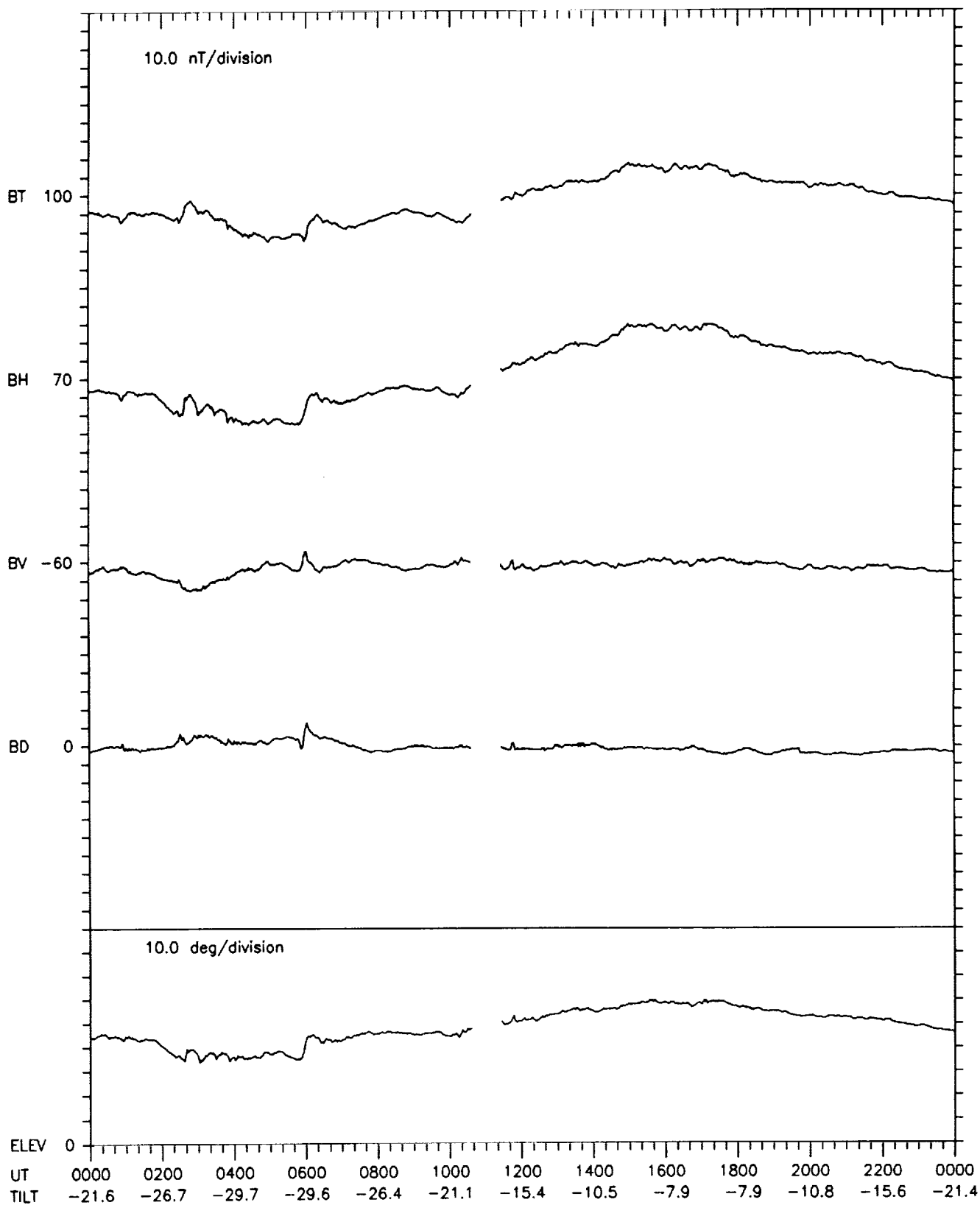
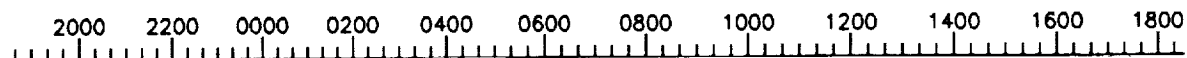
ELEV 0  
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
TILT -21.9 -27.0 -30.0 -29.8 -26.6 -21.4 -15.6 -10.8 -8.1 -8.2 -11.0 -15.9 -21.6

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 26 JAN 26

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5

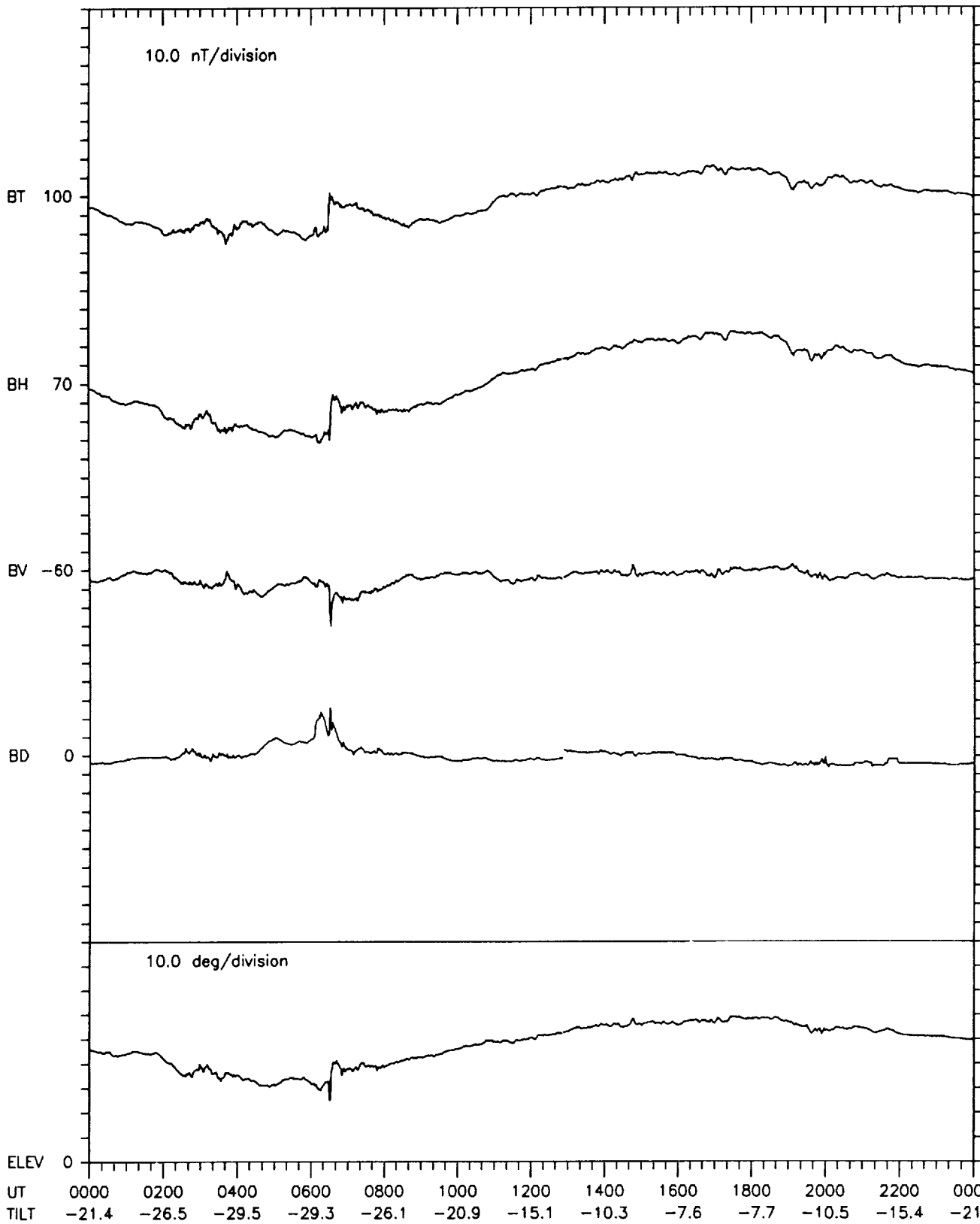
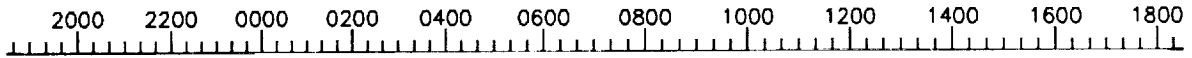


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1983 DAY 27 JAN 27

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5

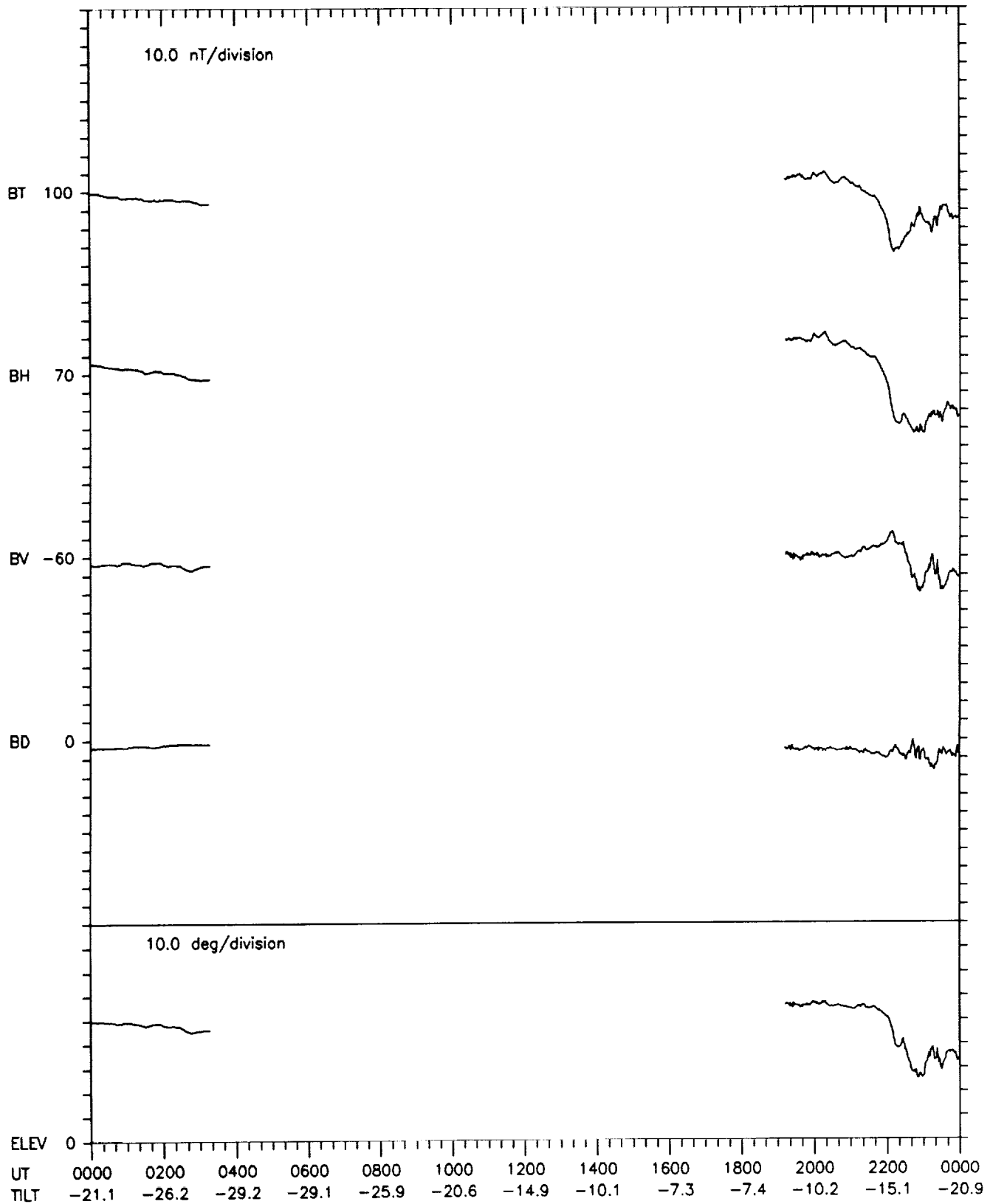
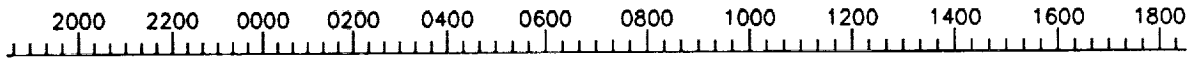


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1983 DAY 28 JAN 28

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MLT 5

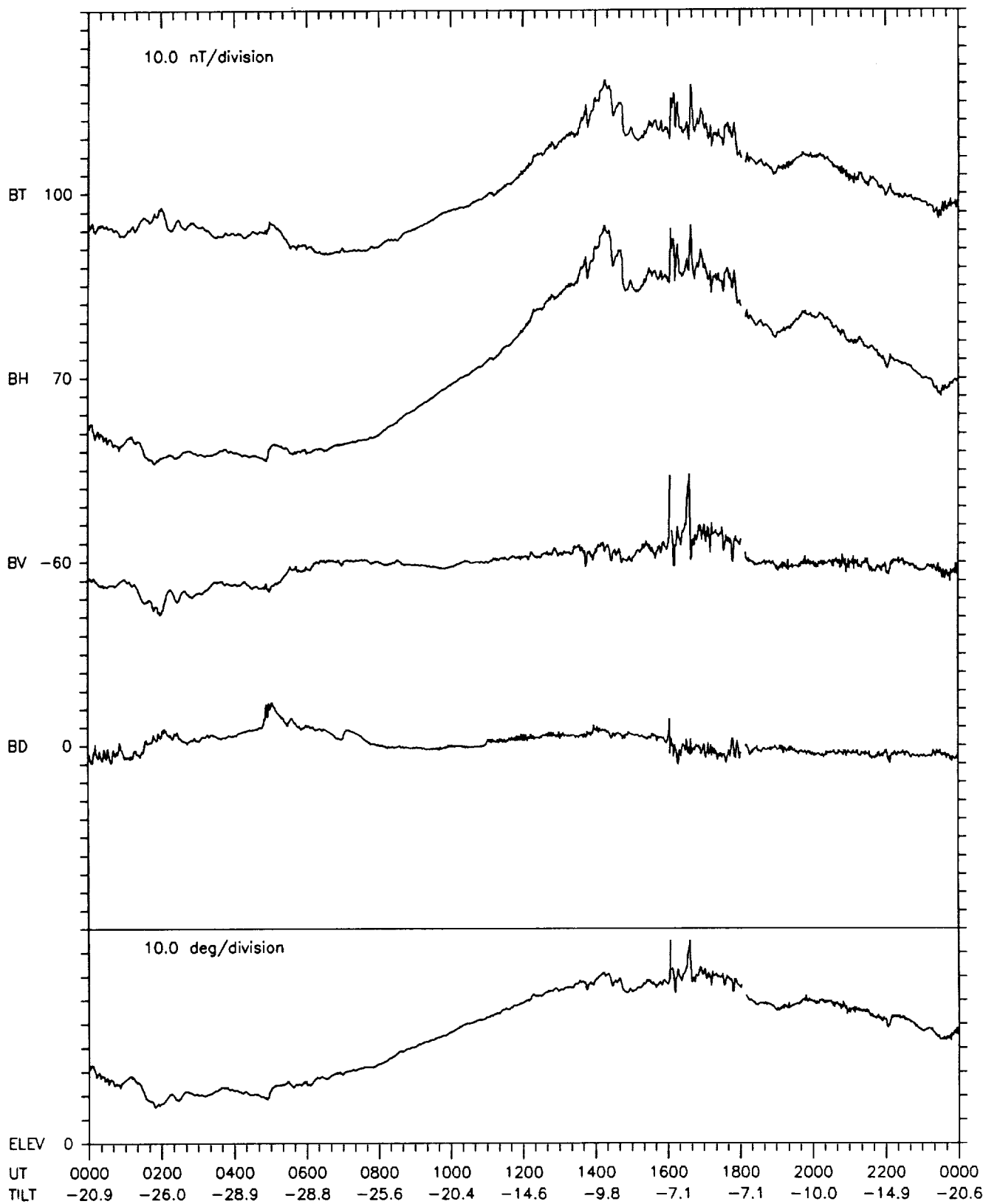
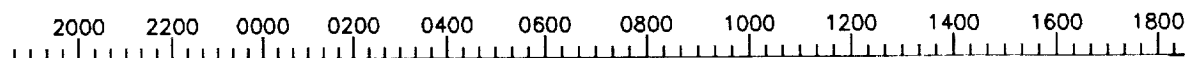


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 29 JAN 29

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MLT 5

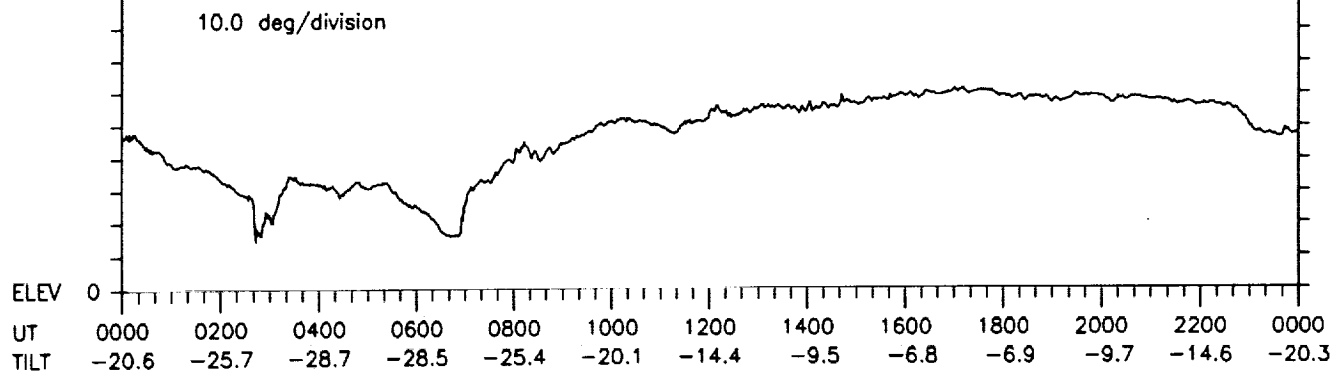
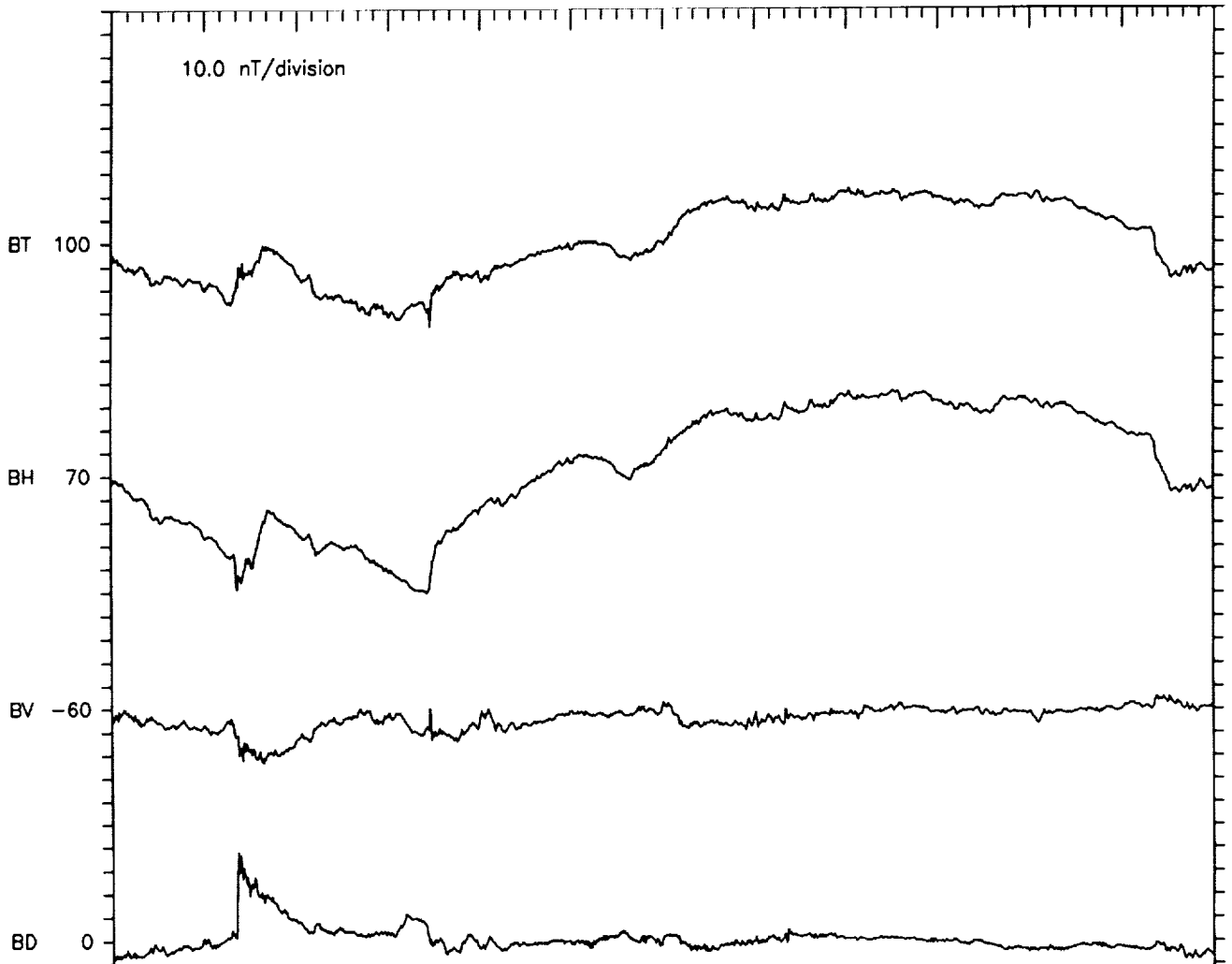


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 30 JAN 30

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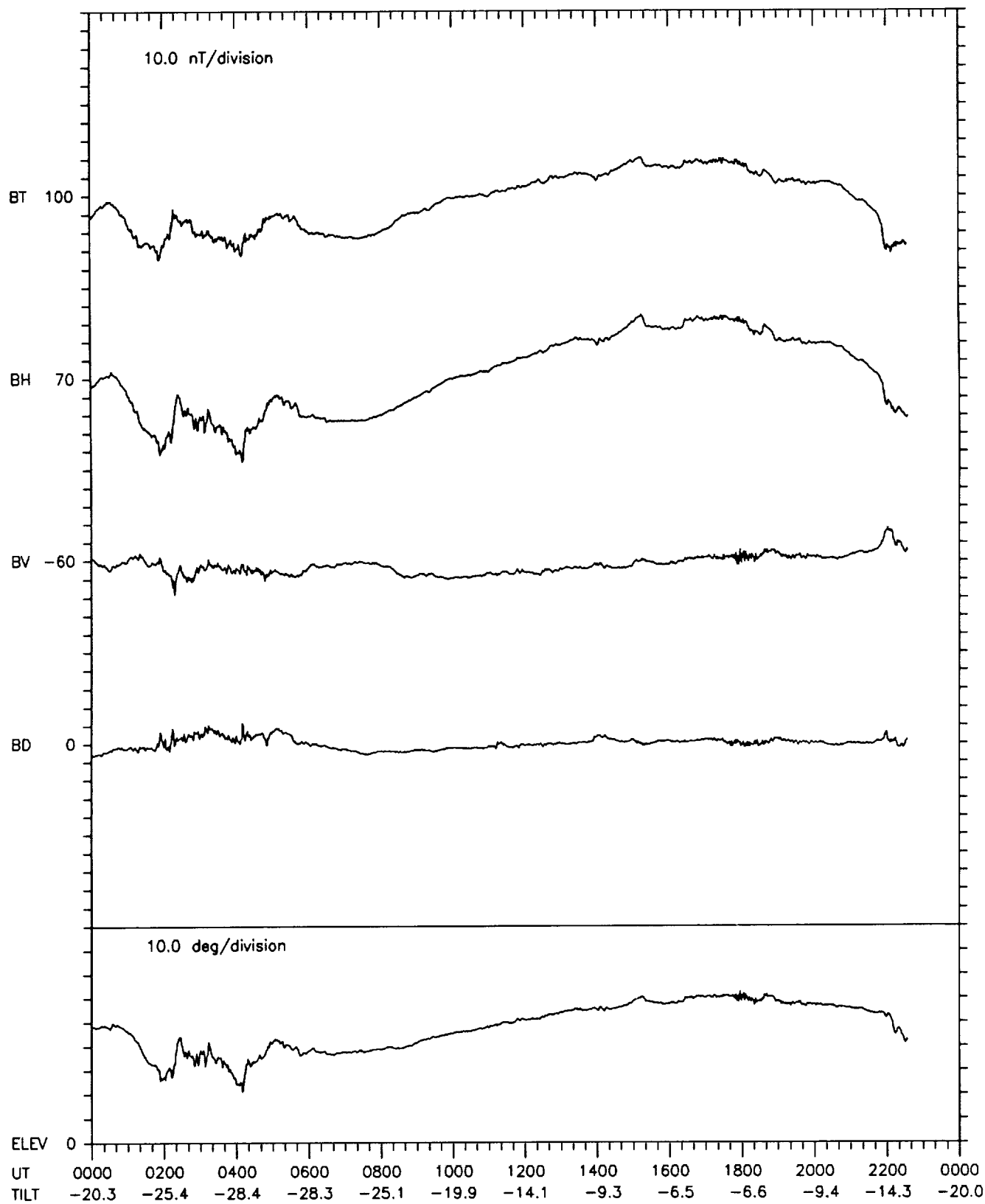
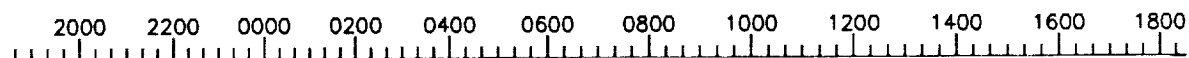


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1983 DAY 31 JAN 31

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MLT 5

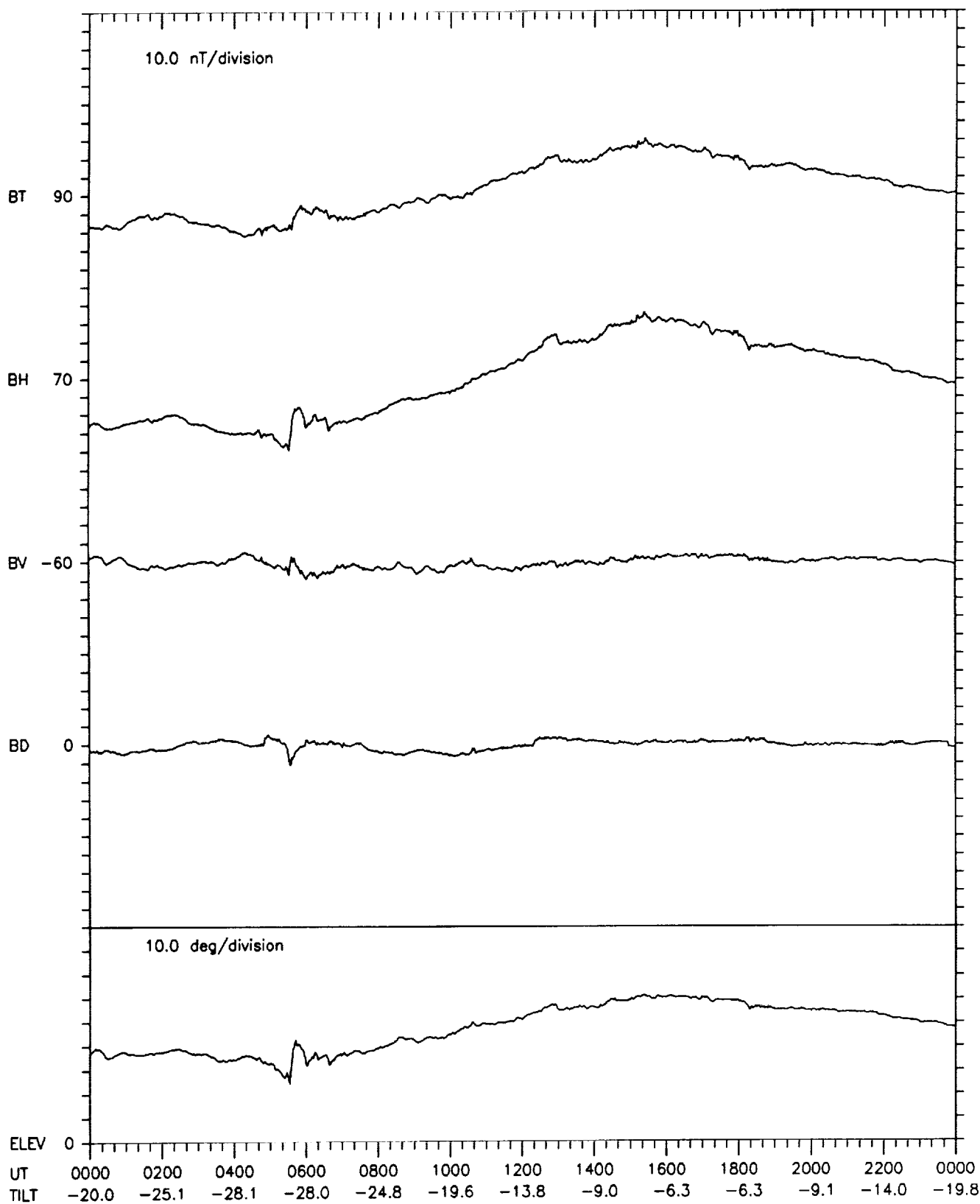
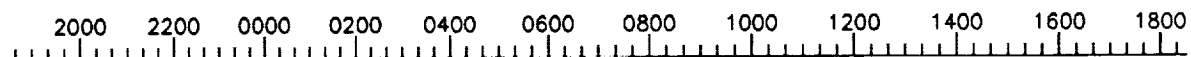


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 32 FEB 1

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5



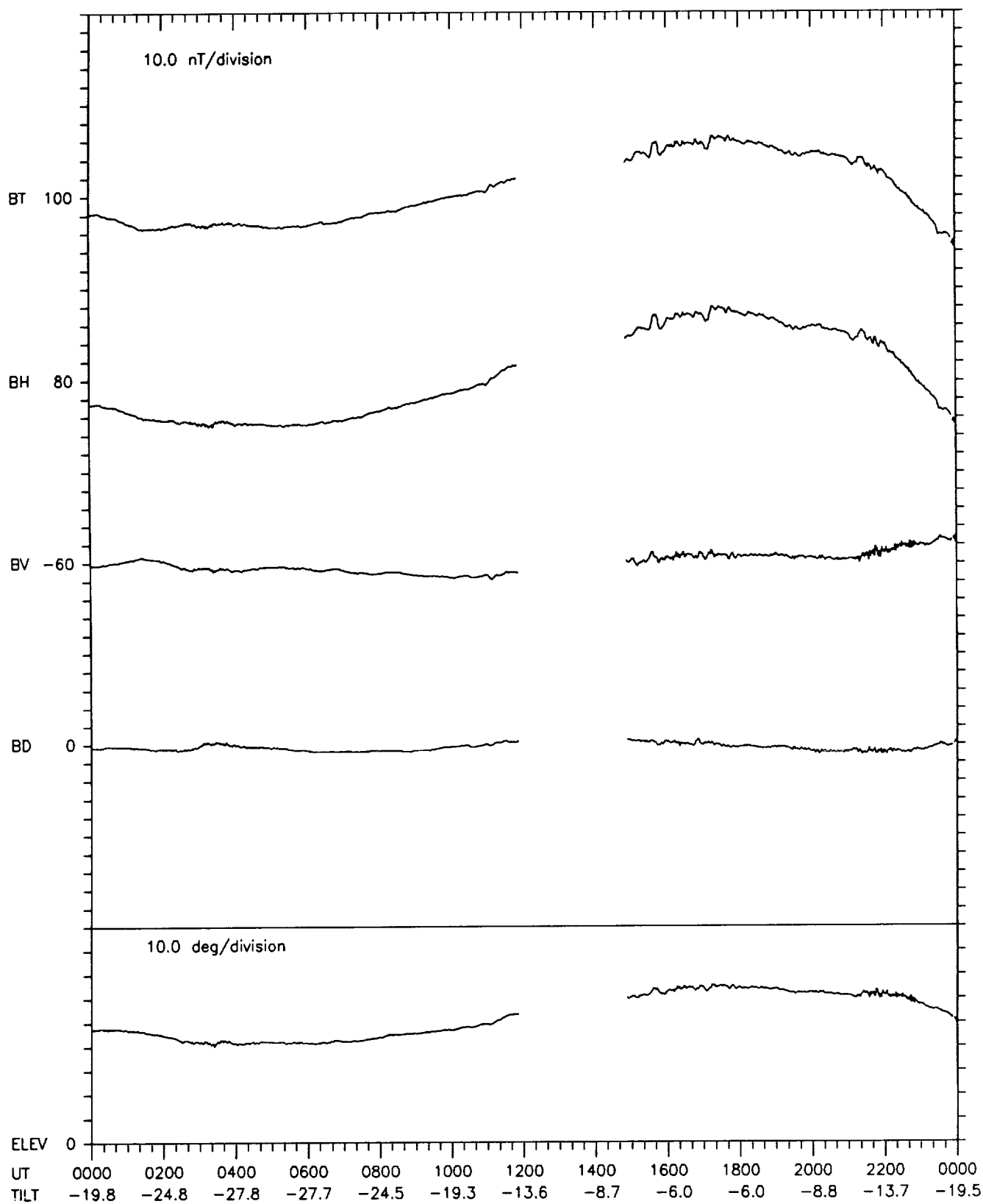
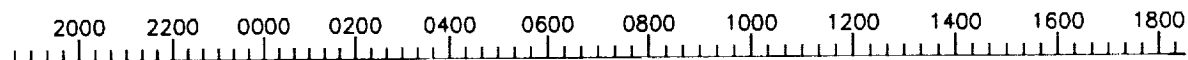


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 33 FEB 2

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5

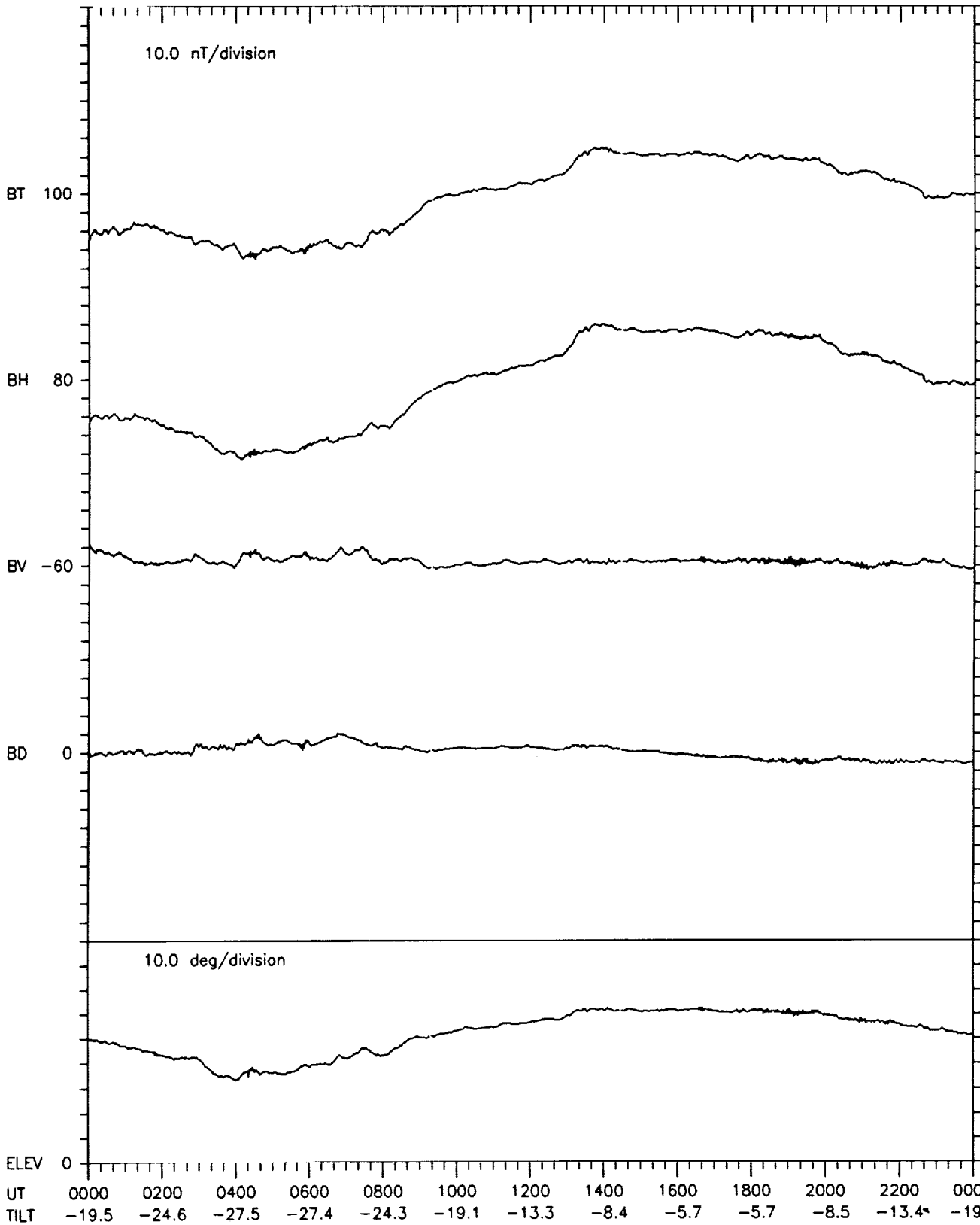


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 34 FEB 3

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

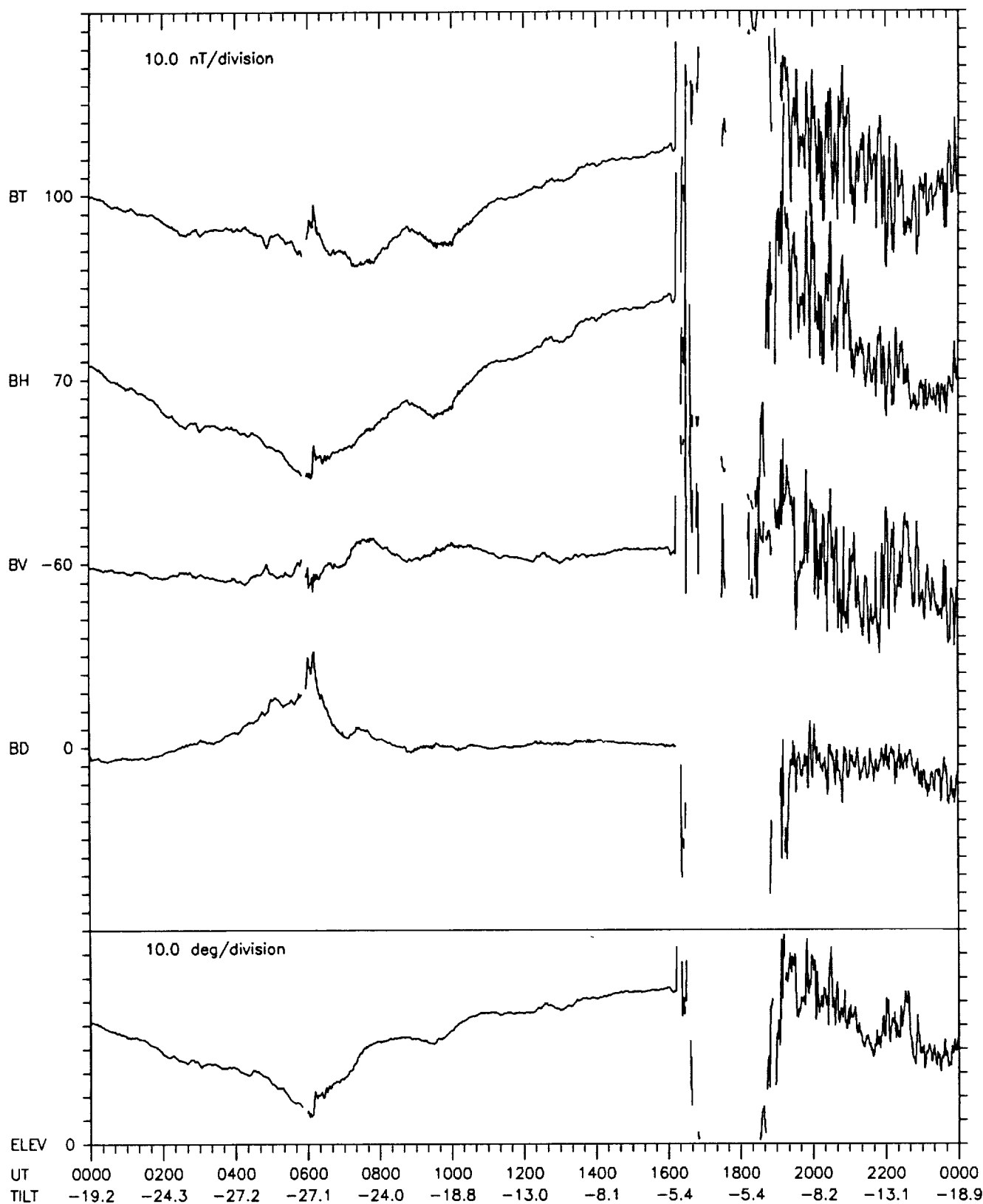


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 35 FEB 4

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

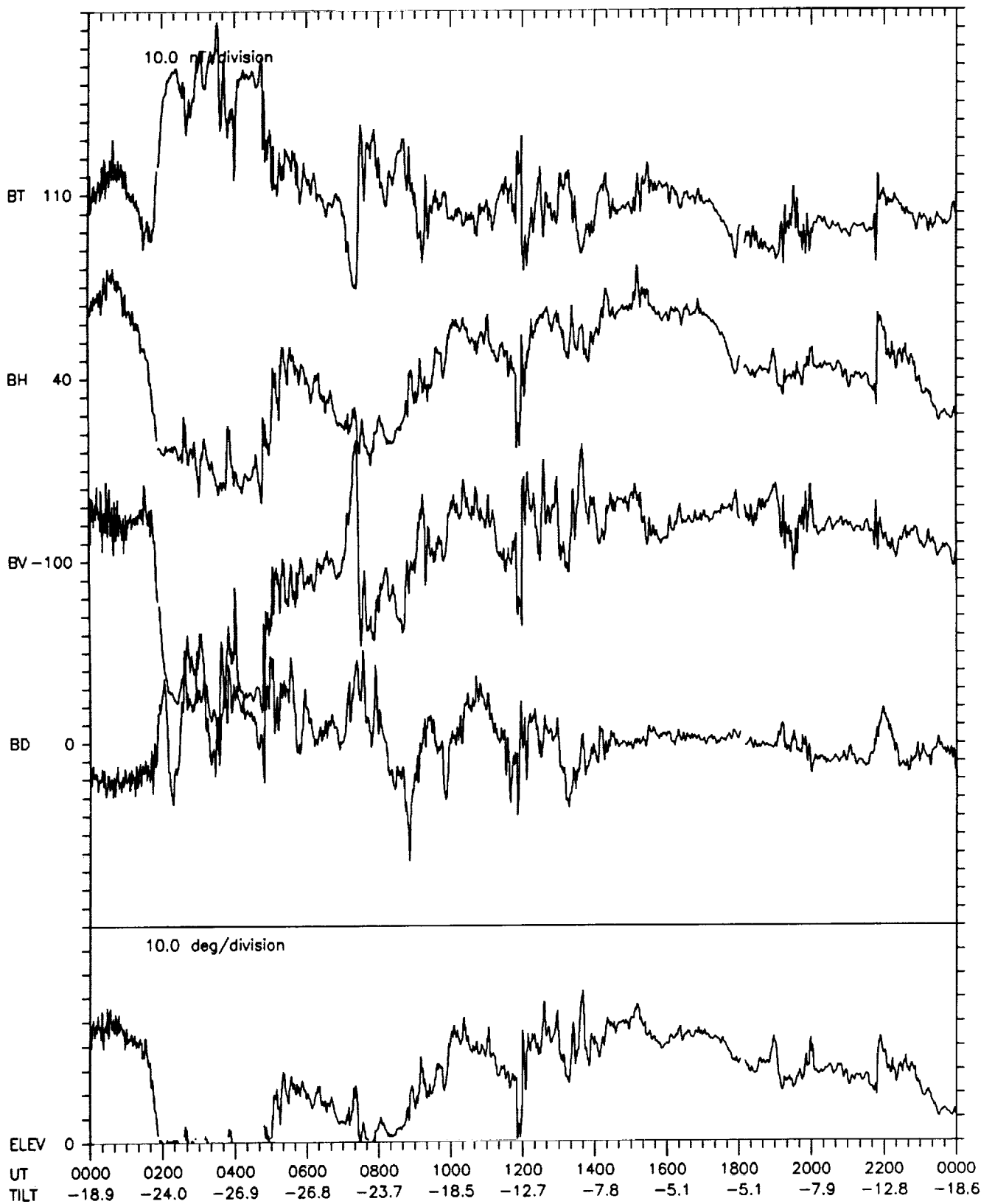


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 36 FEB 5

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

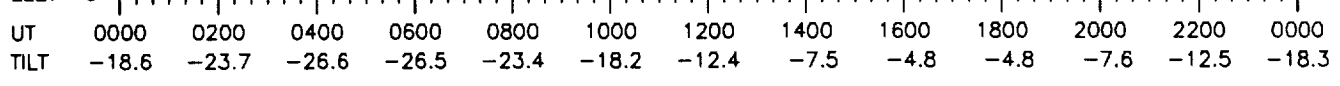
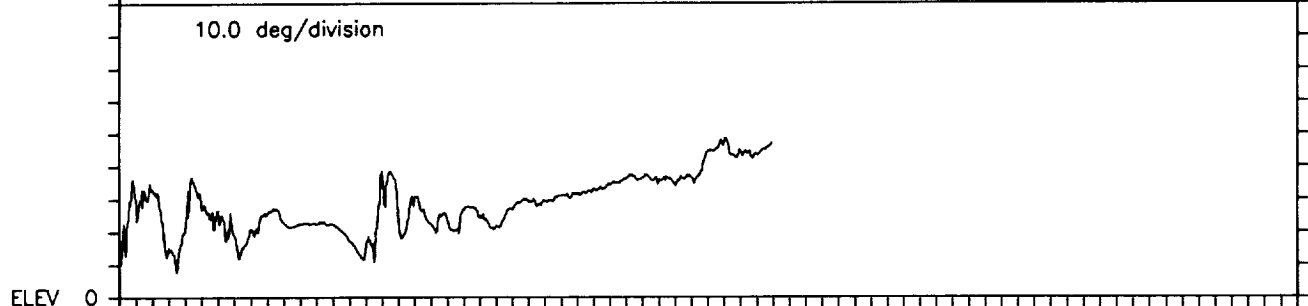
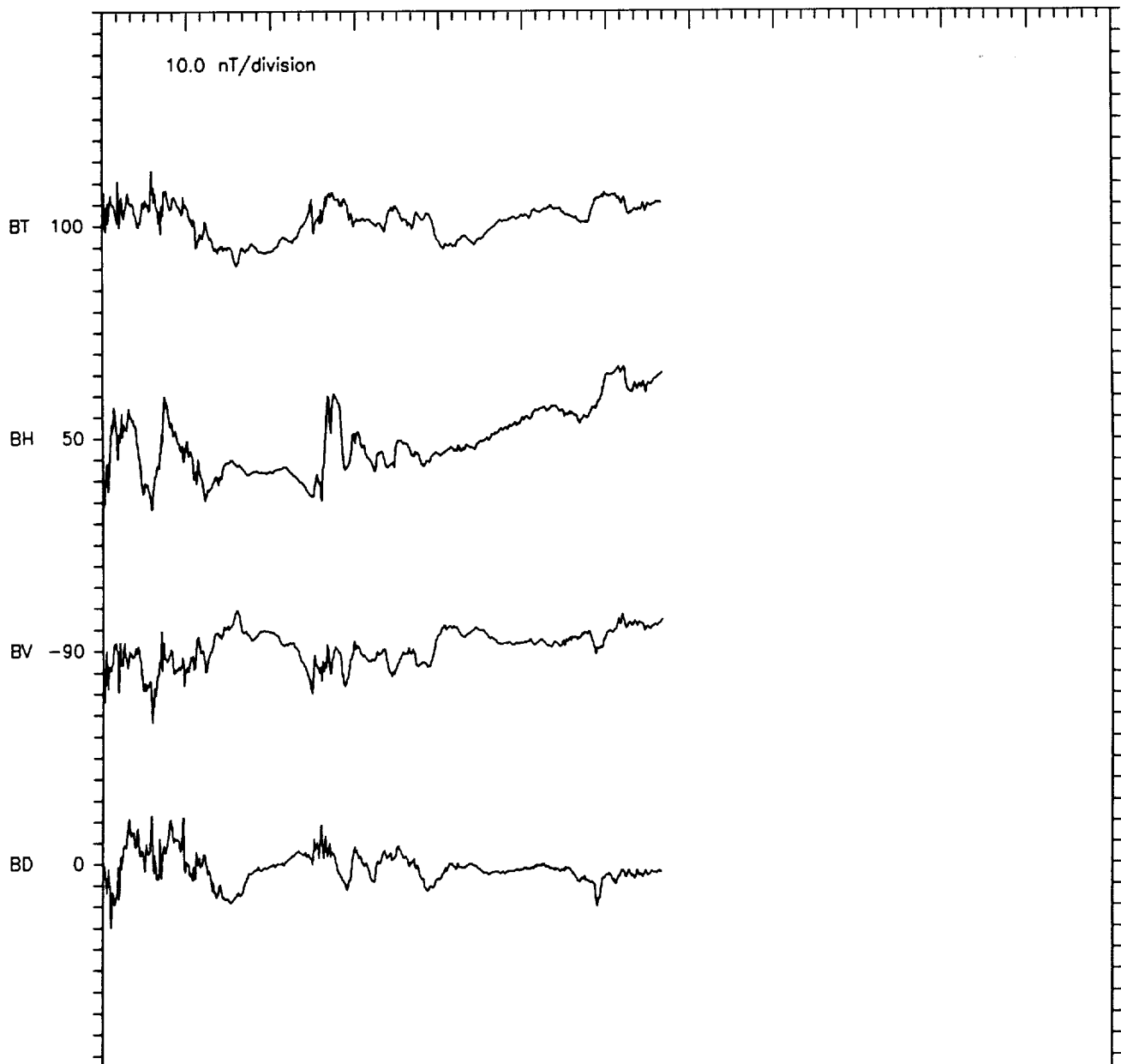
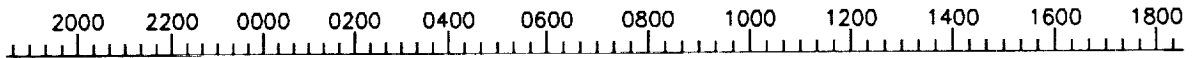


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 37 FEB 6

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5

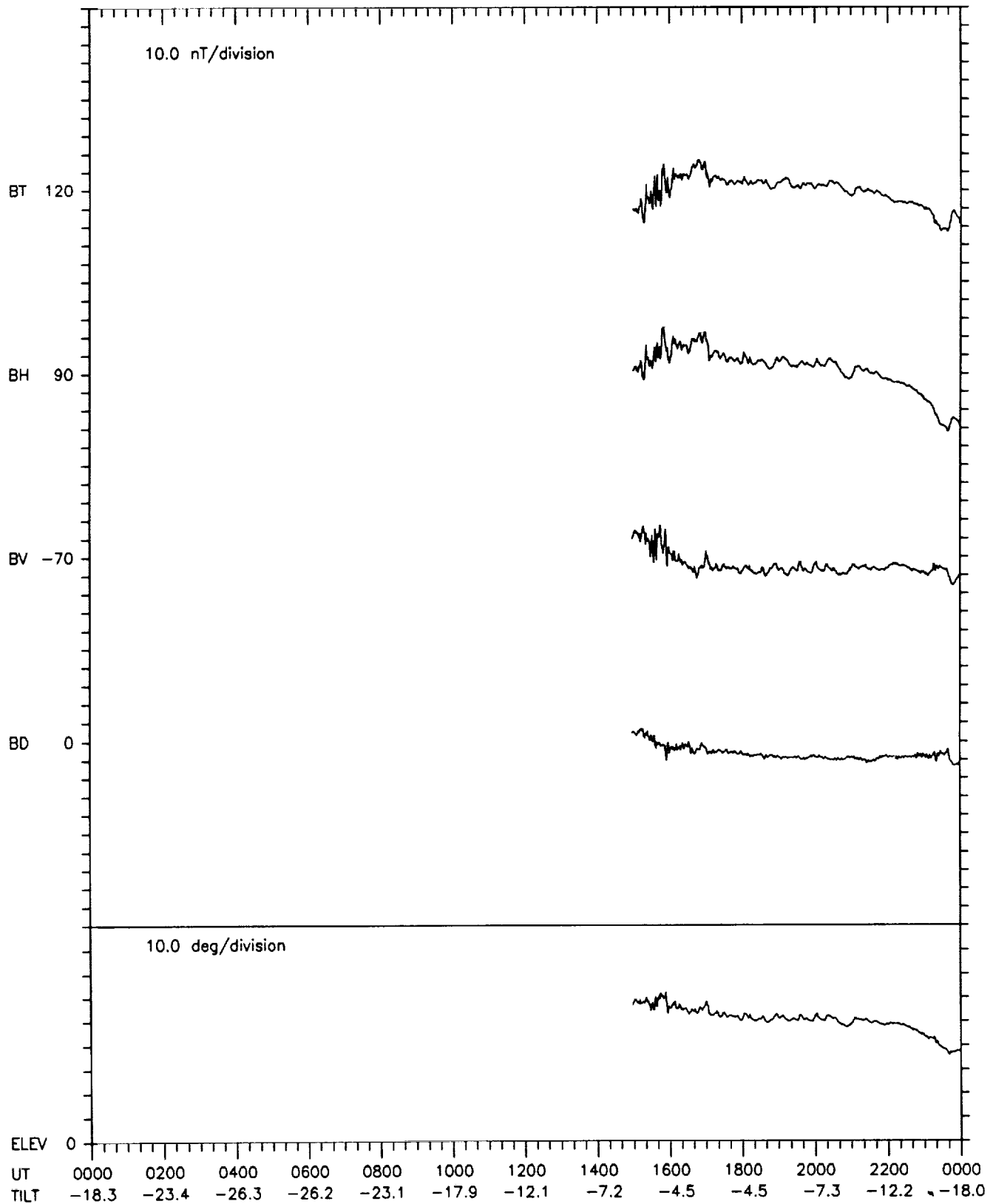


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 38 FEB 7

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

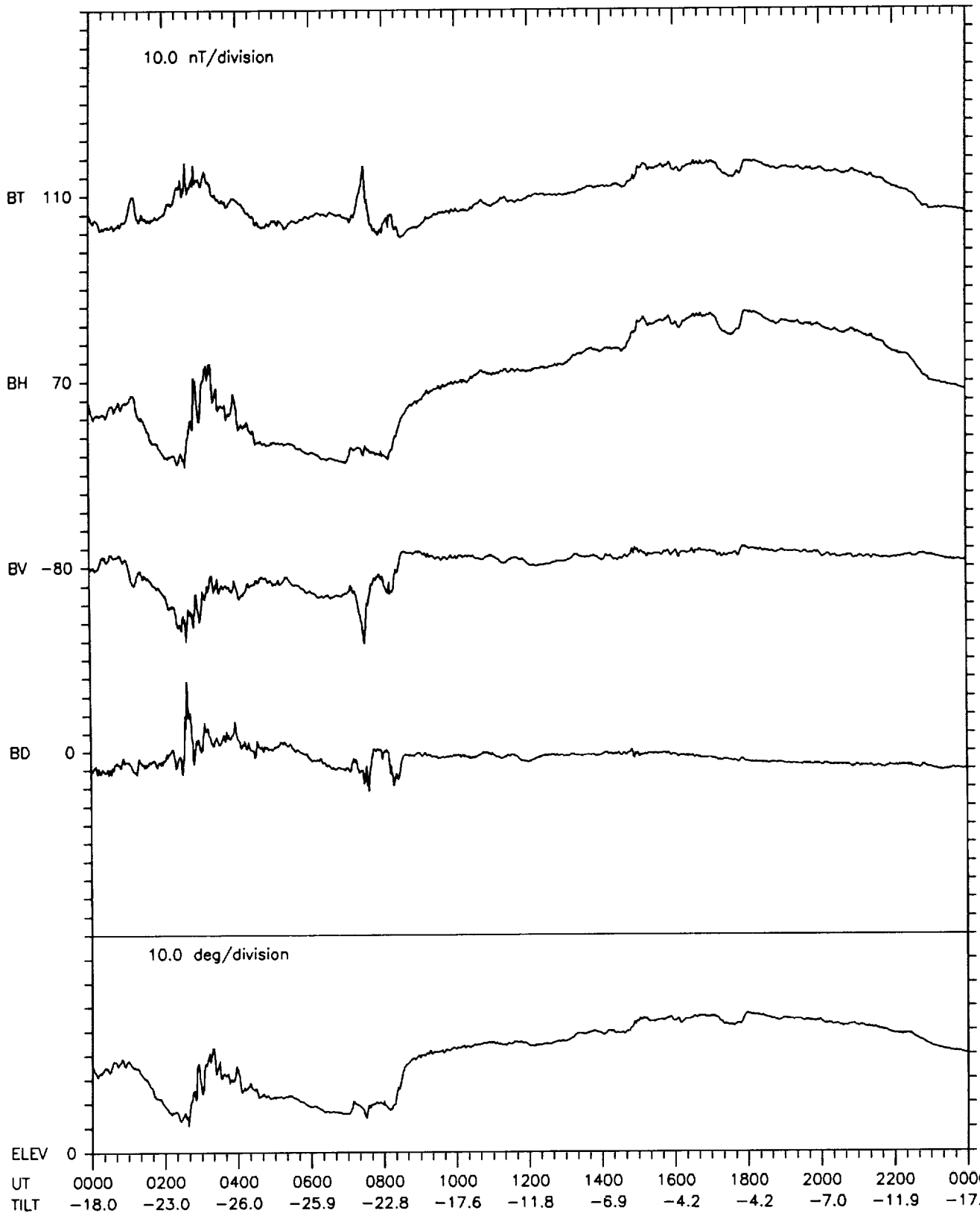
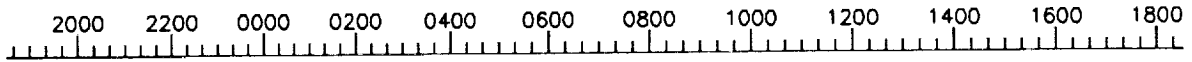


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 39 FEB 8

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5

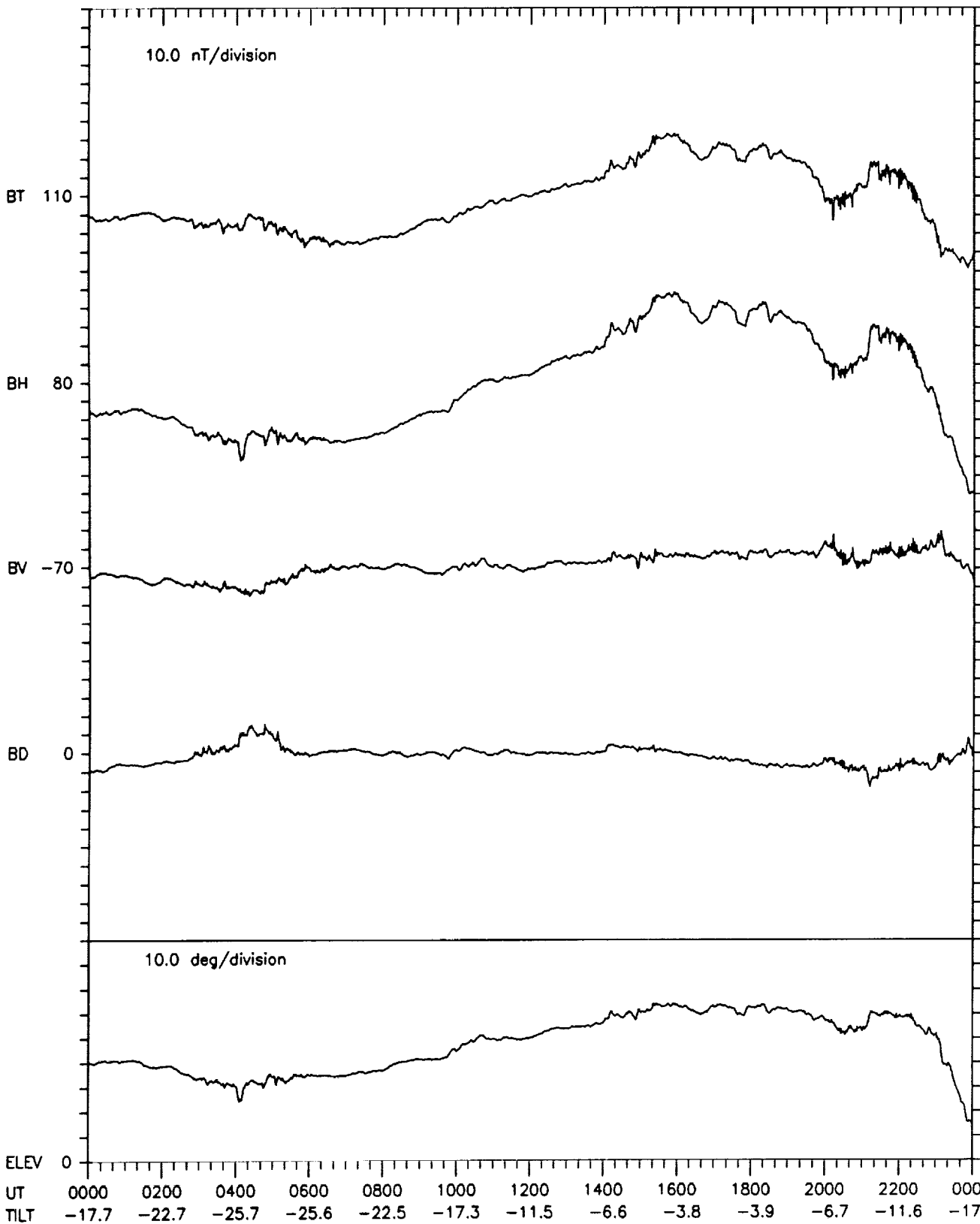
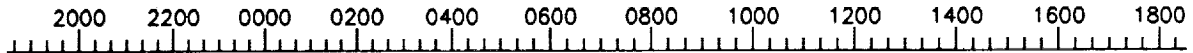


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 40 FEB 9

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5



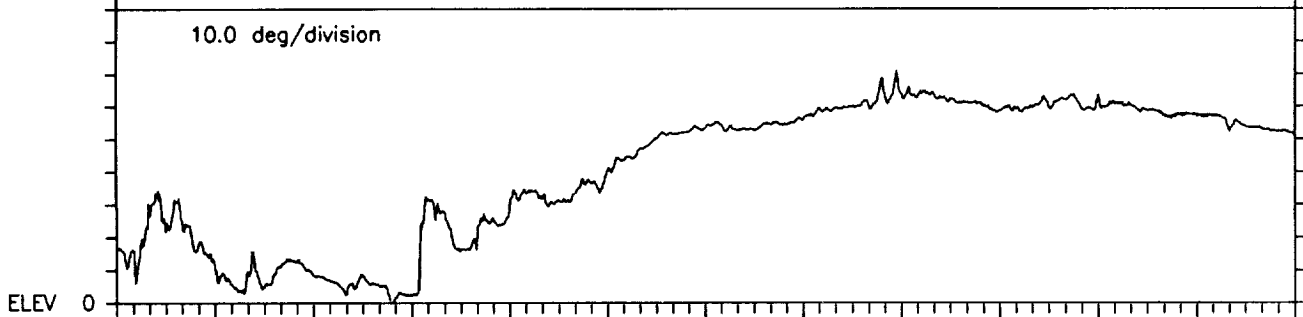
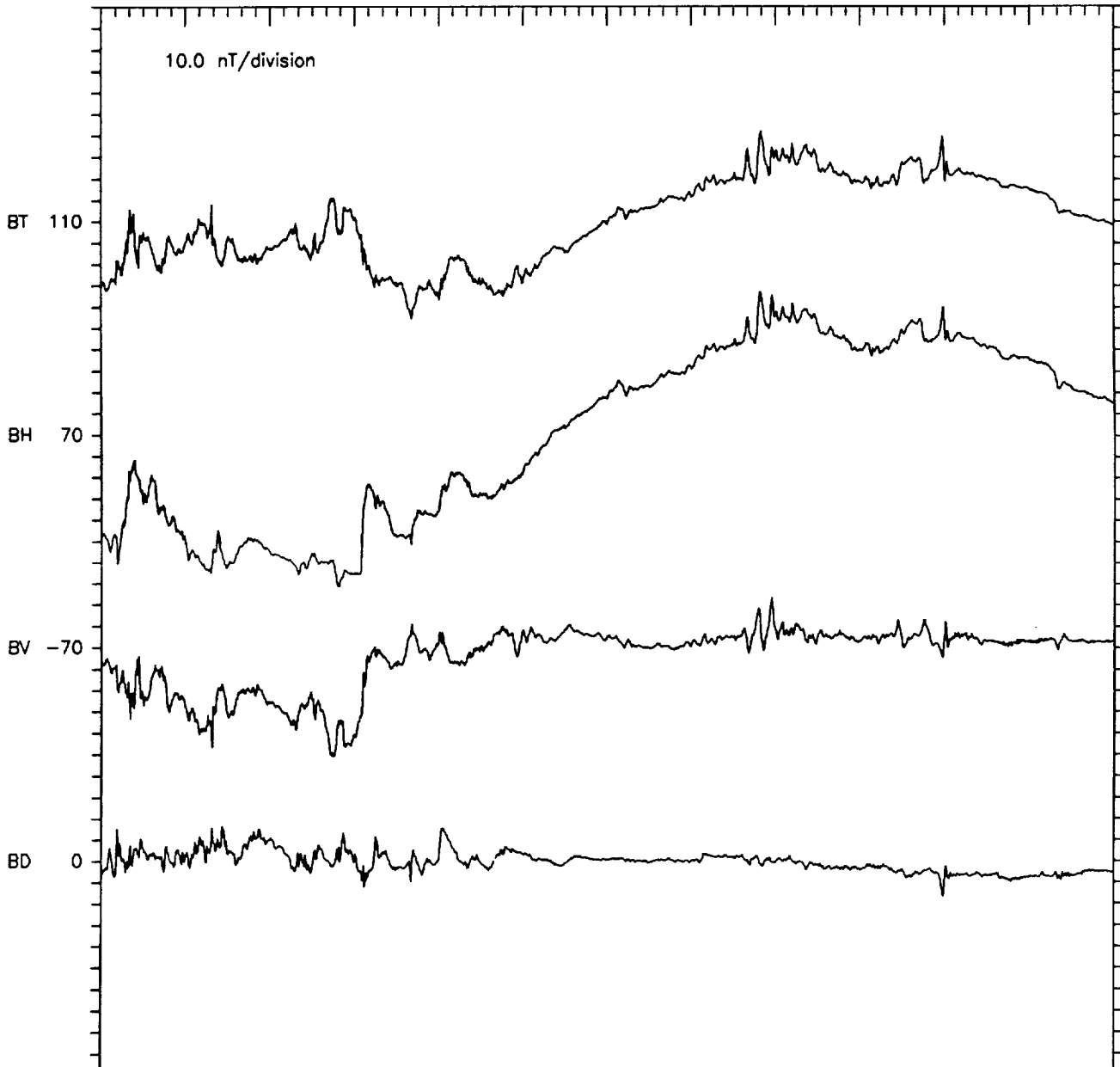


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 41 FEB 10

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000

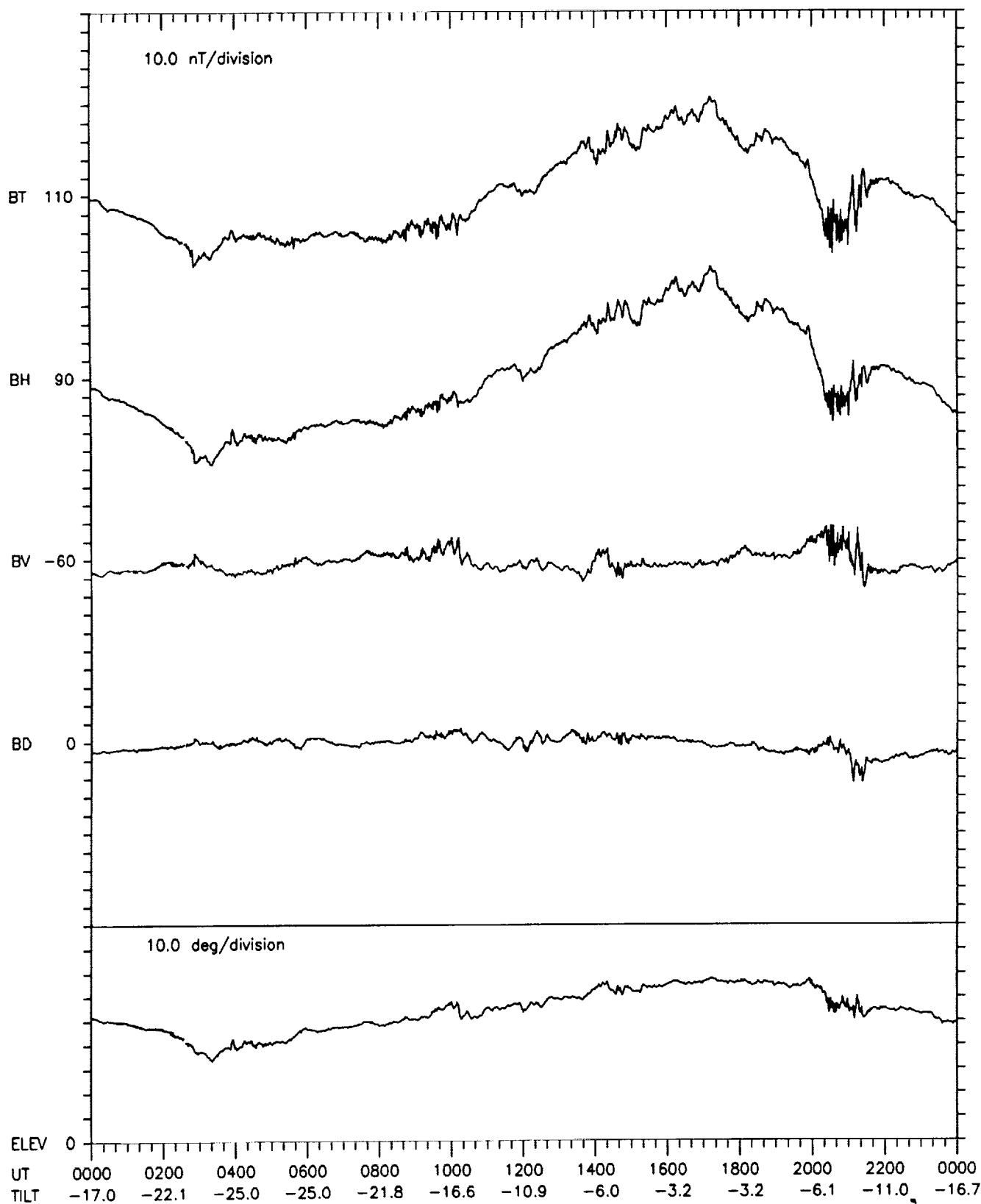
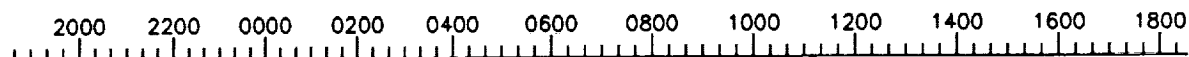
TILT -17.3 -22.4 -25.4 -25.3 -22.1 -17.0 -11.2 -6.3 -3.5 -3.6 -6.4 -11.3 -17.0

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 42 FEB 11

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5

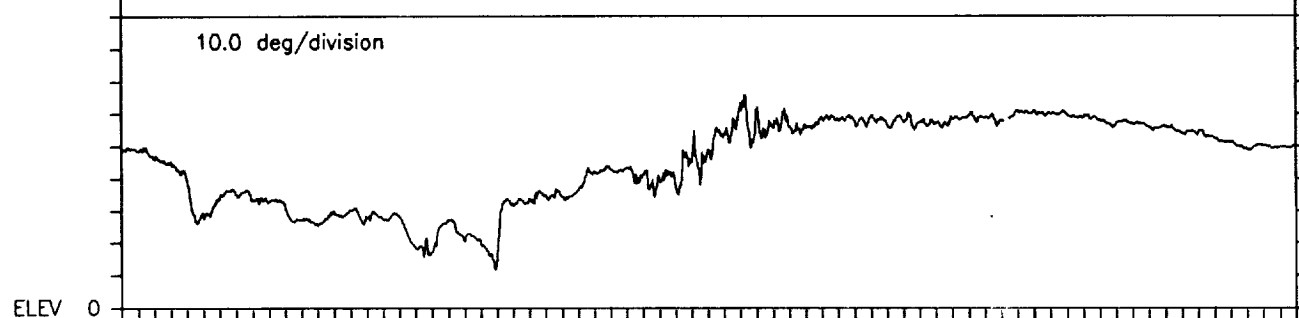
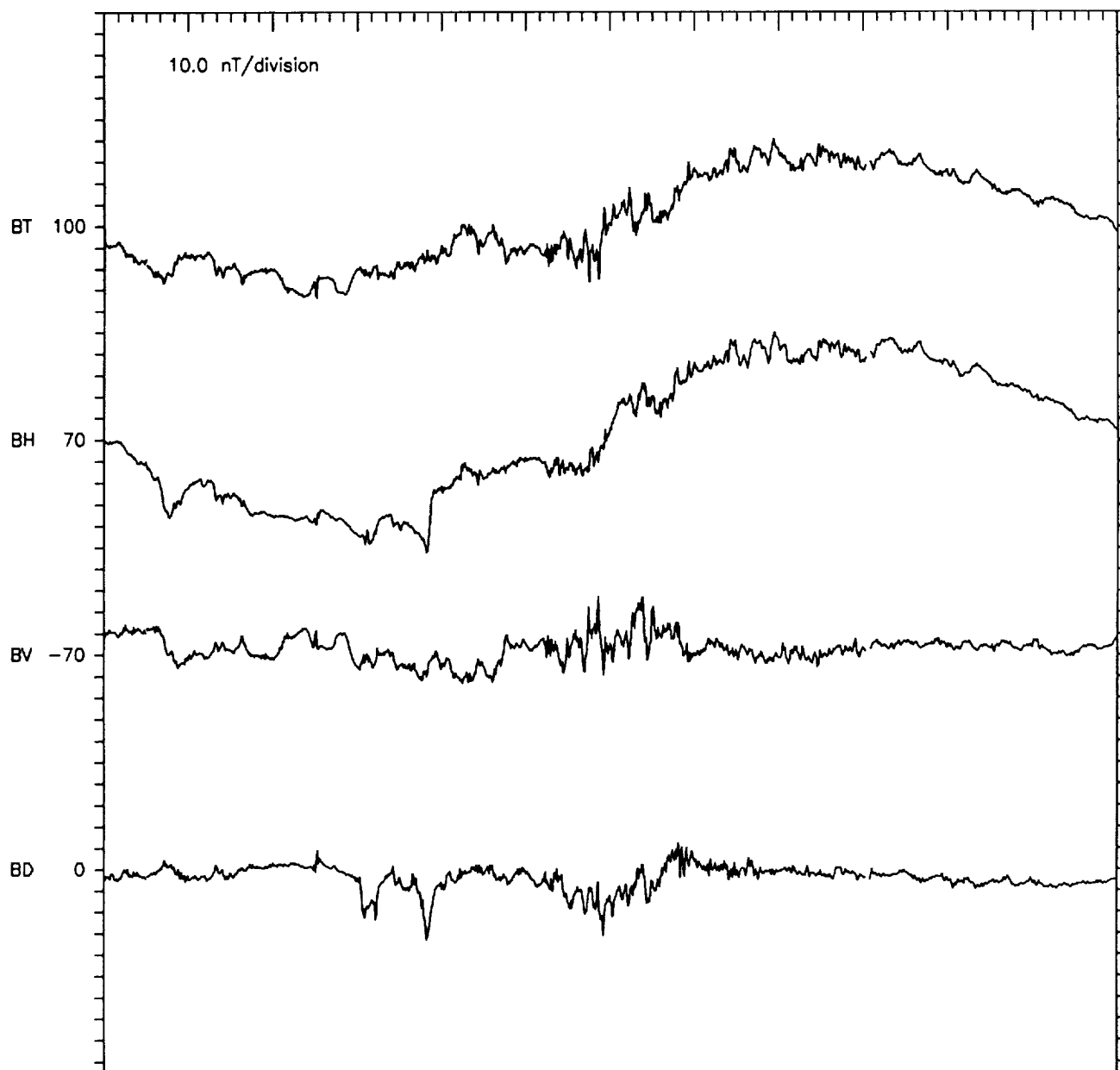
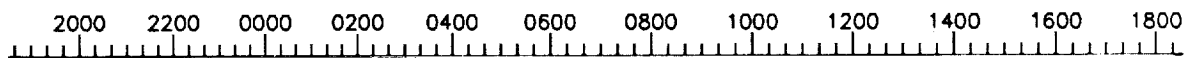


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 43 FEB 12

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5



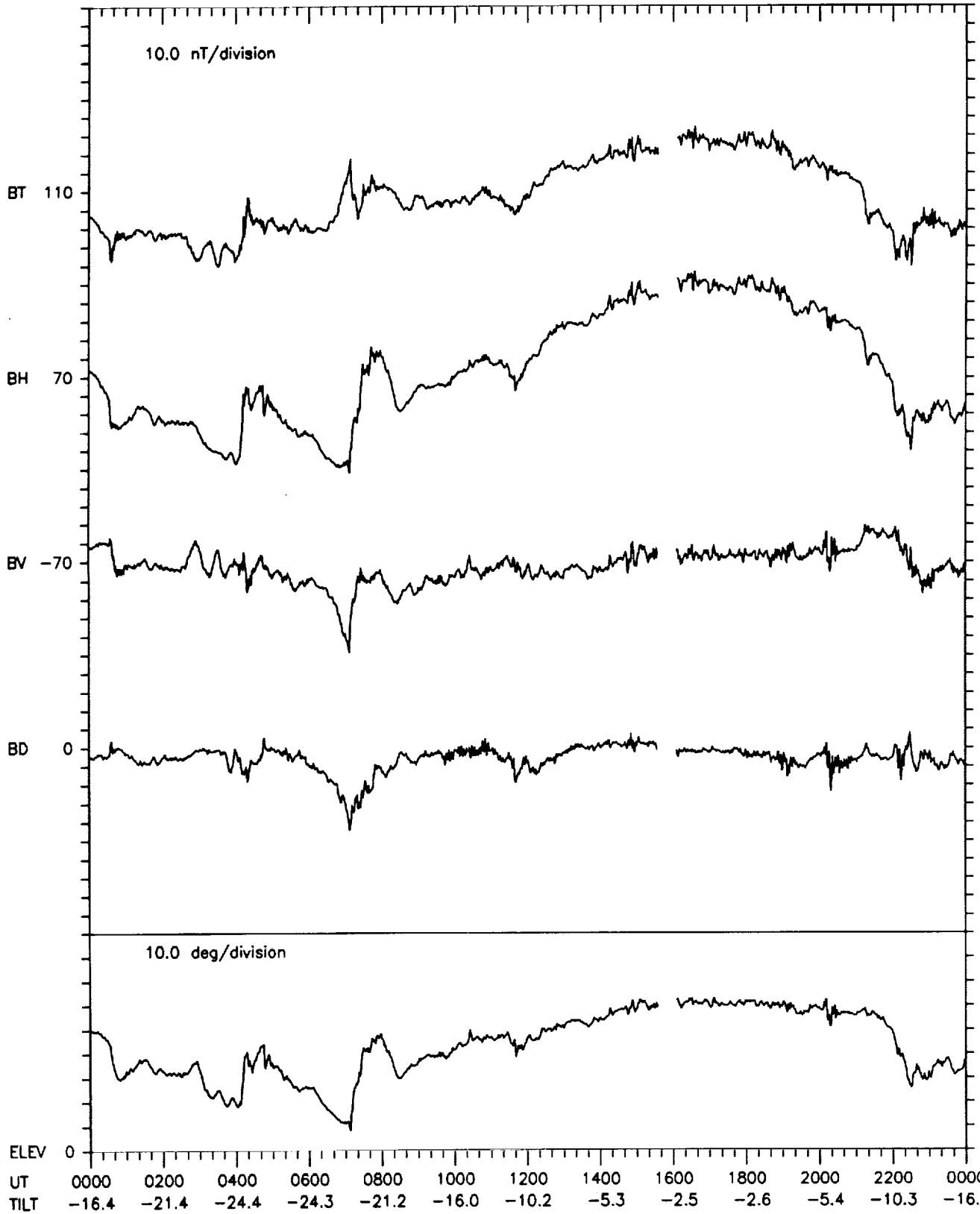
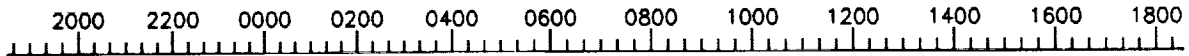
UT	0000	0200	0400	0600	0800	1000	1200	1400	1600	1800	2000	2200	0000
TILT	-16.7	-21.8	-24.7	-24.6	-21.5	-16.3	-10.5	-5.6	-2.9	-2.9	-5.7	-10.6	-16.4

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 44 FEB 13

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5

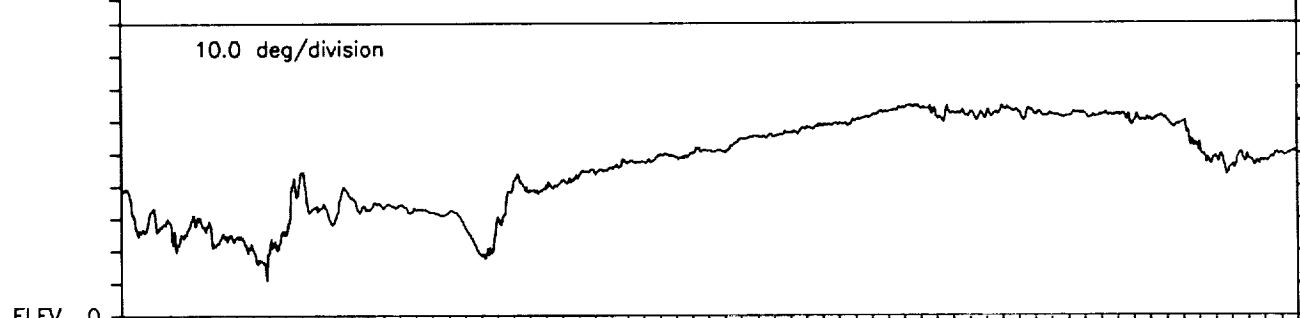
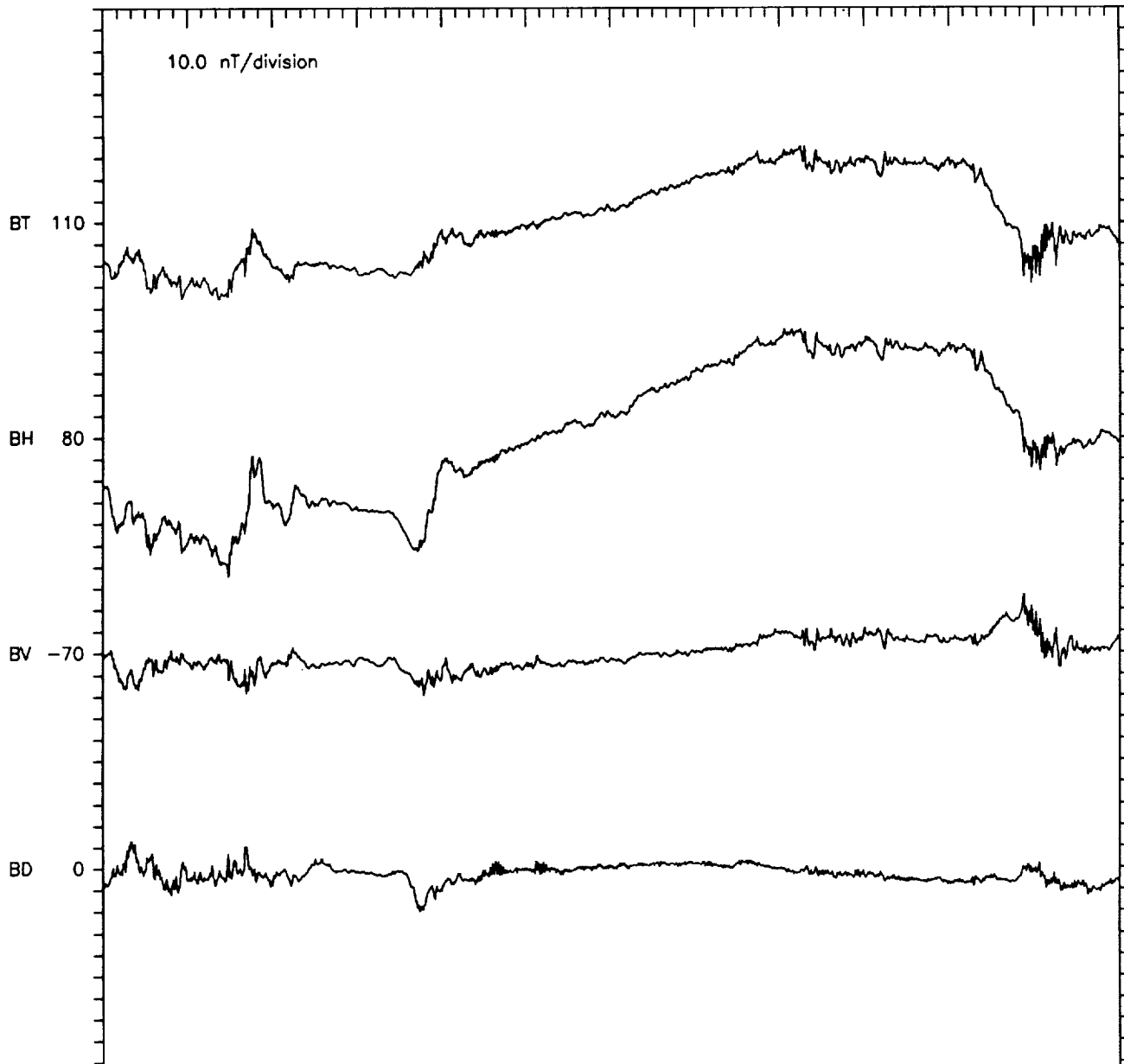
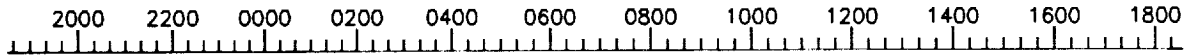


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 45 FEB 14

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5



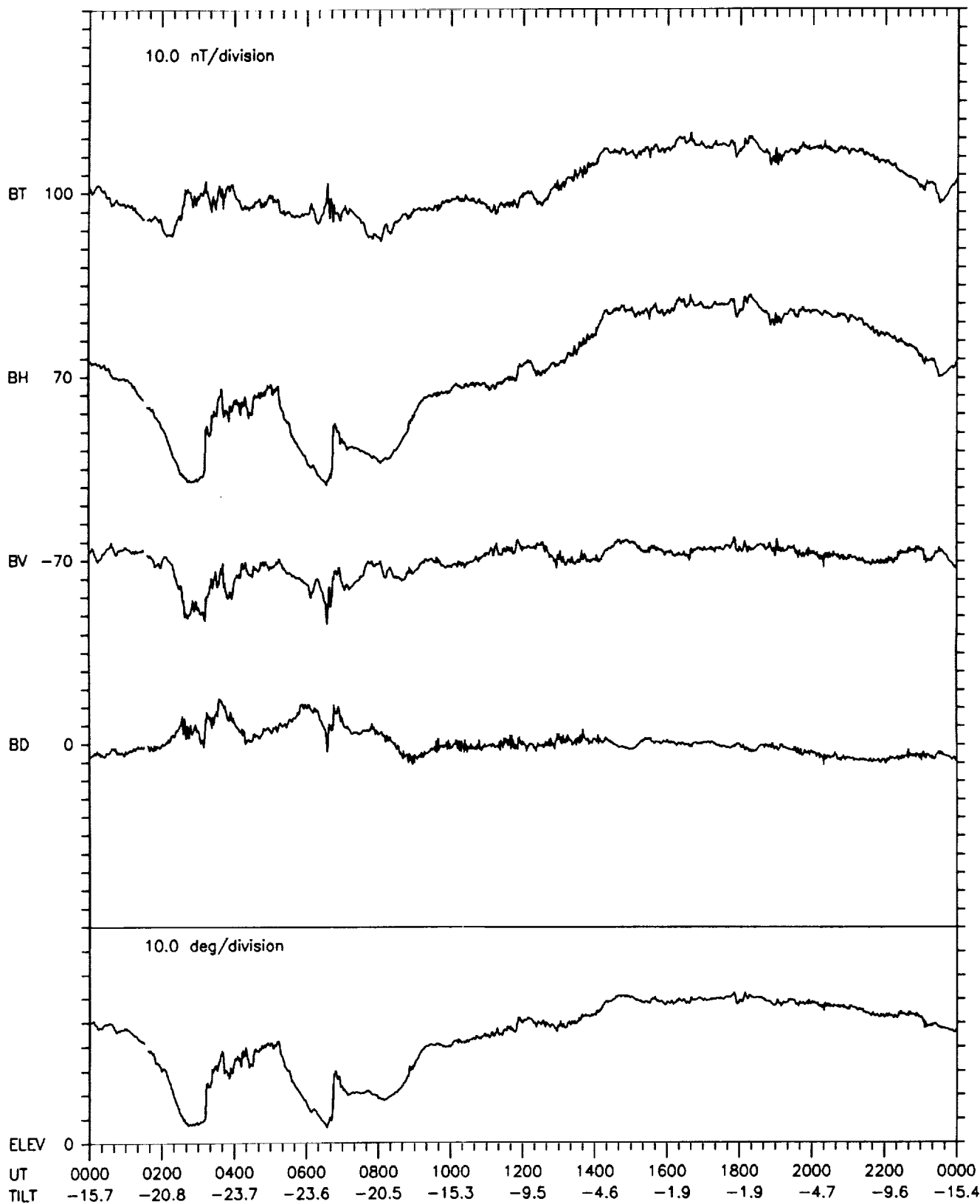
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
TILT -16.0 -21.1 -24.1 -24.0 -20.8 -15.7 -9.9 -5.0 -2.2 -2.2 -5.1 -10.0 -15.7

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 46 FEB 15

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

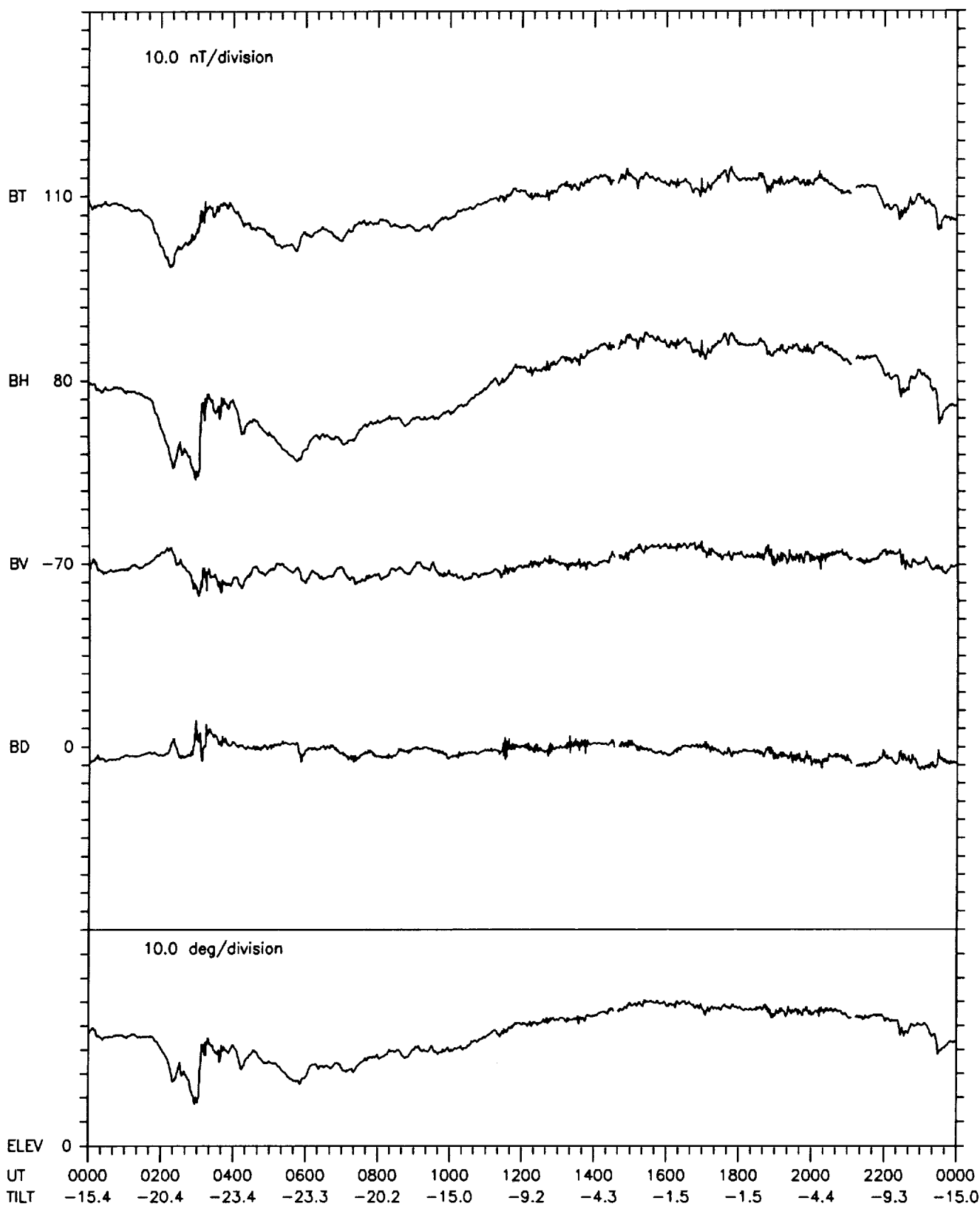


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 47 FEB 16

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

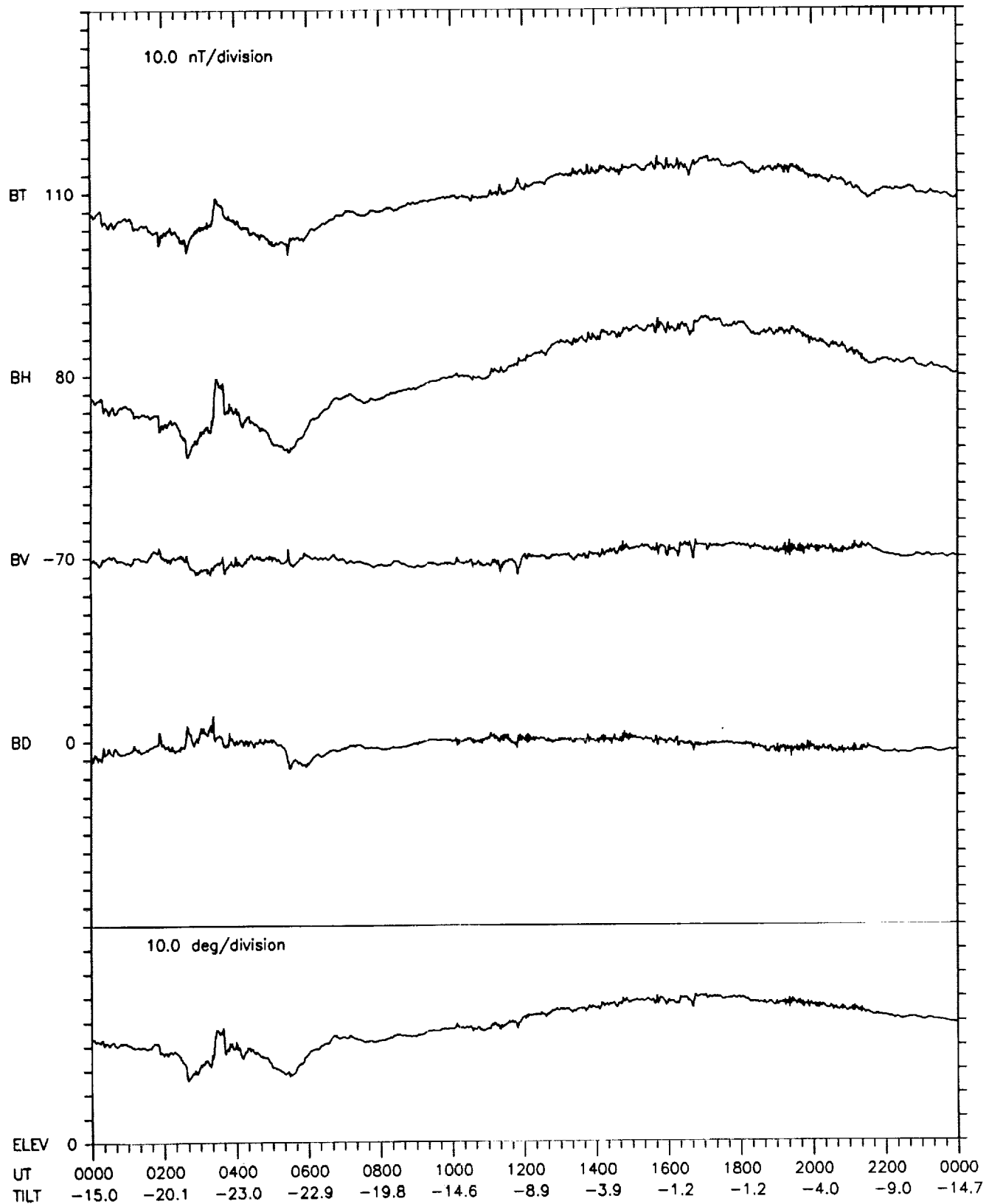
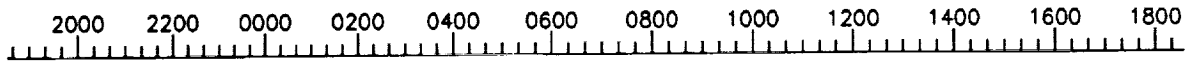


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 48 FEB 17

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5



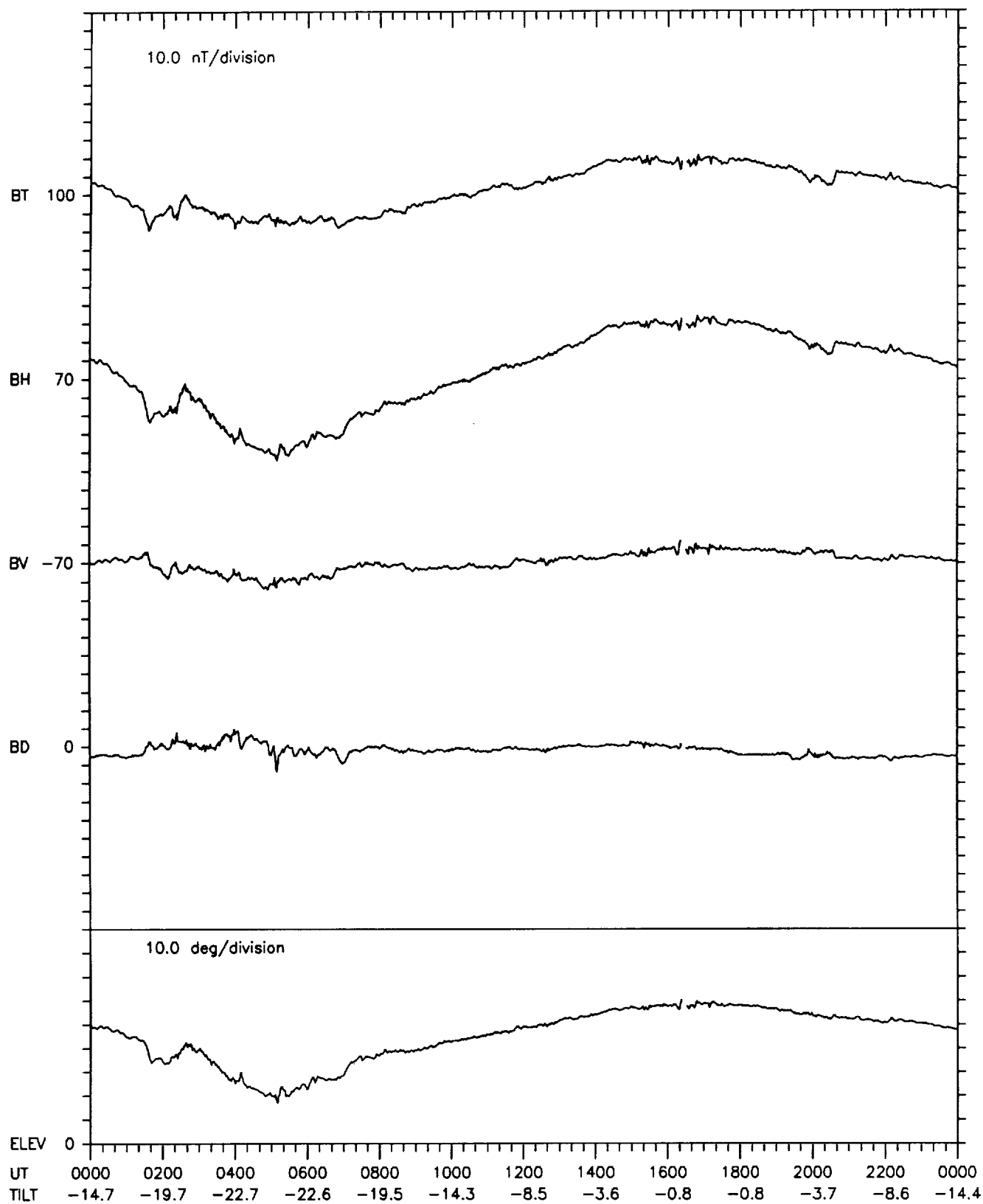


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 49 FEB 18

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

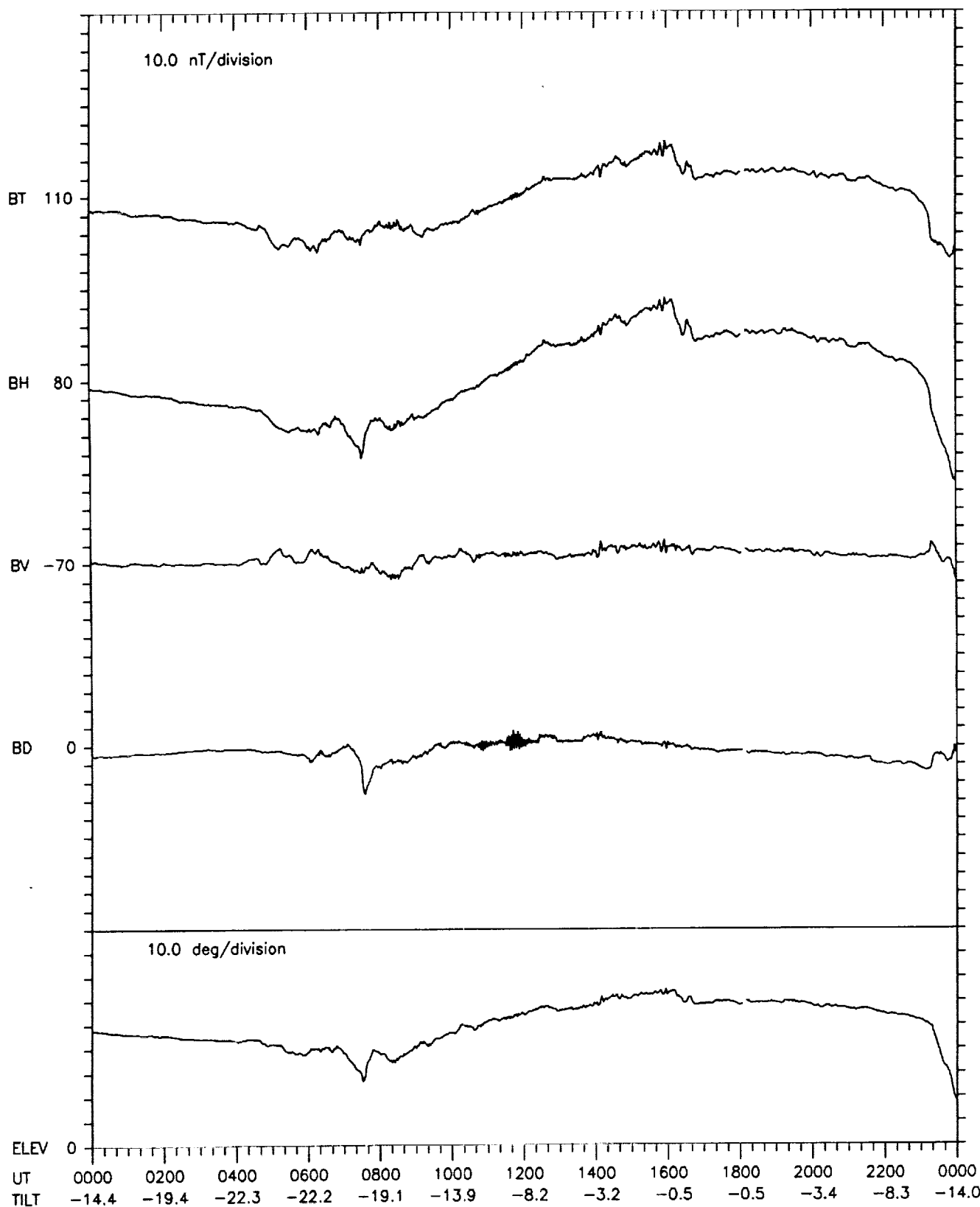


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 50 FEB 19

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

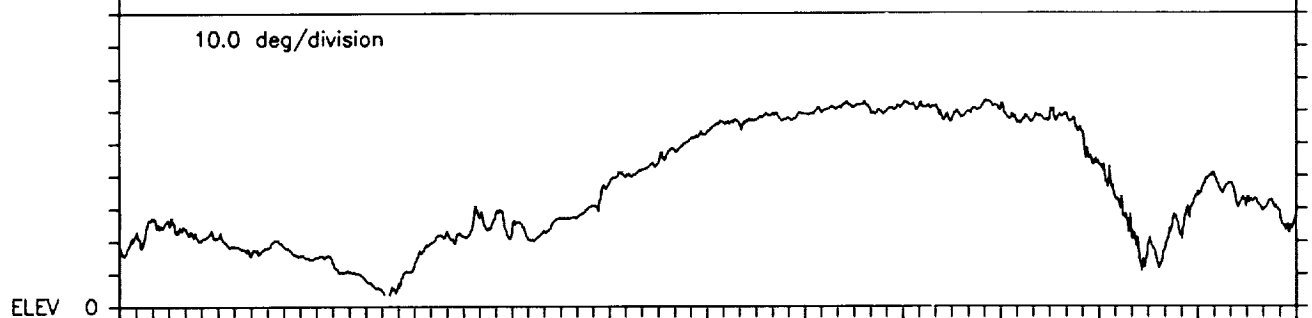
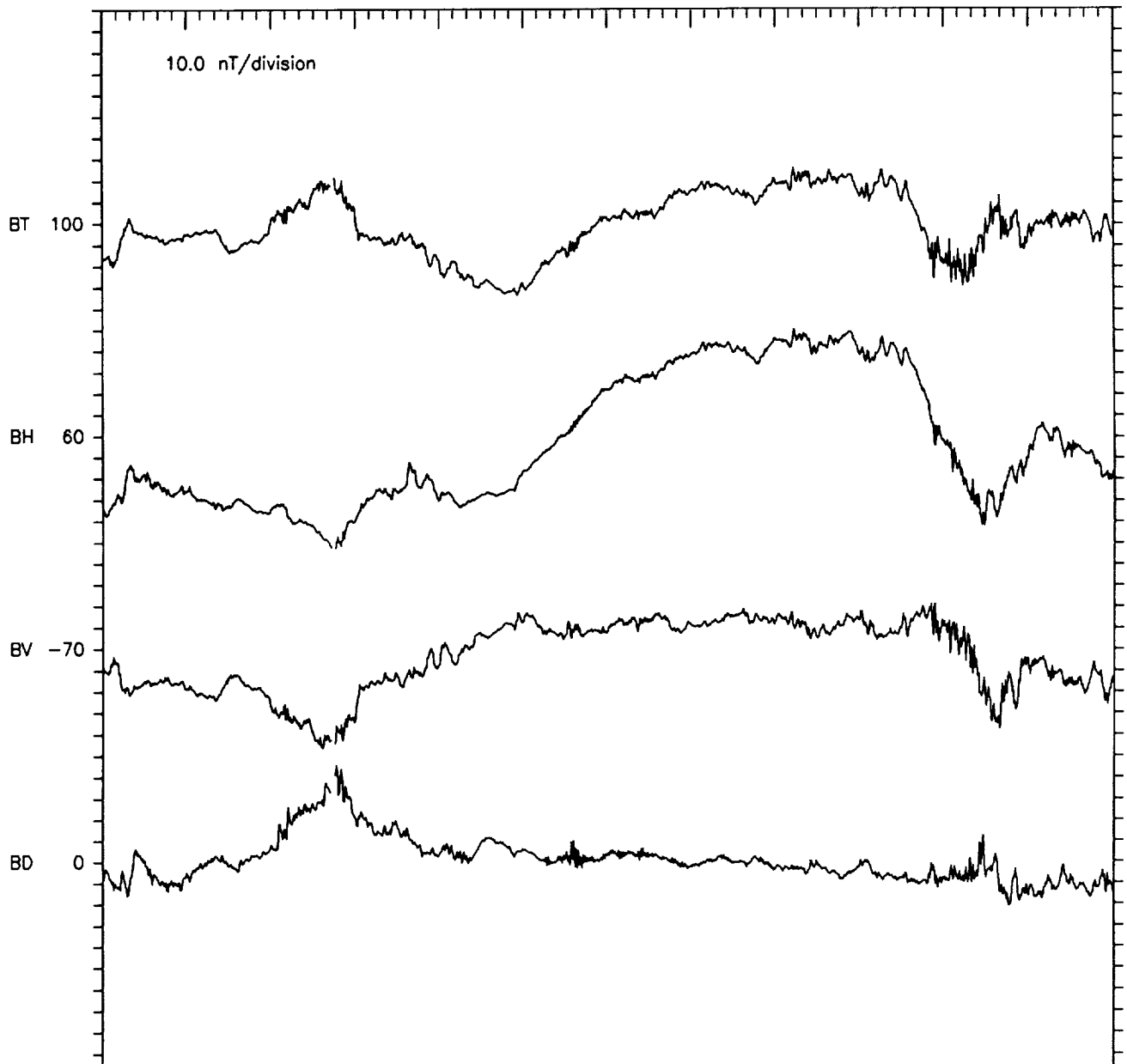
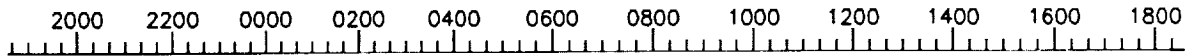


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 51 FEB 20

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5



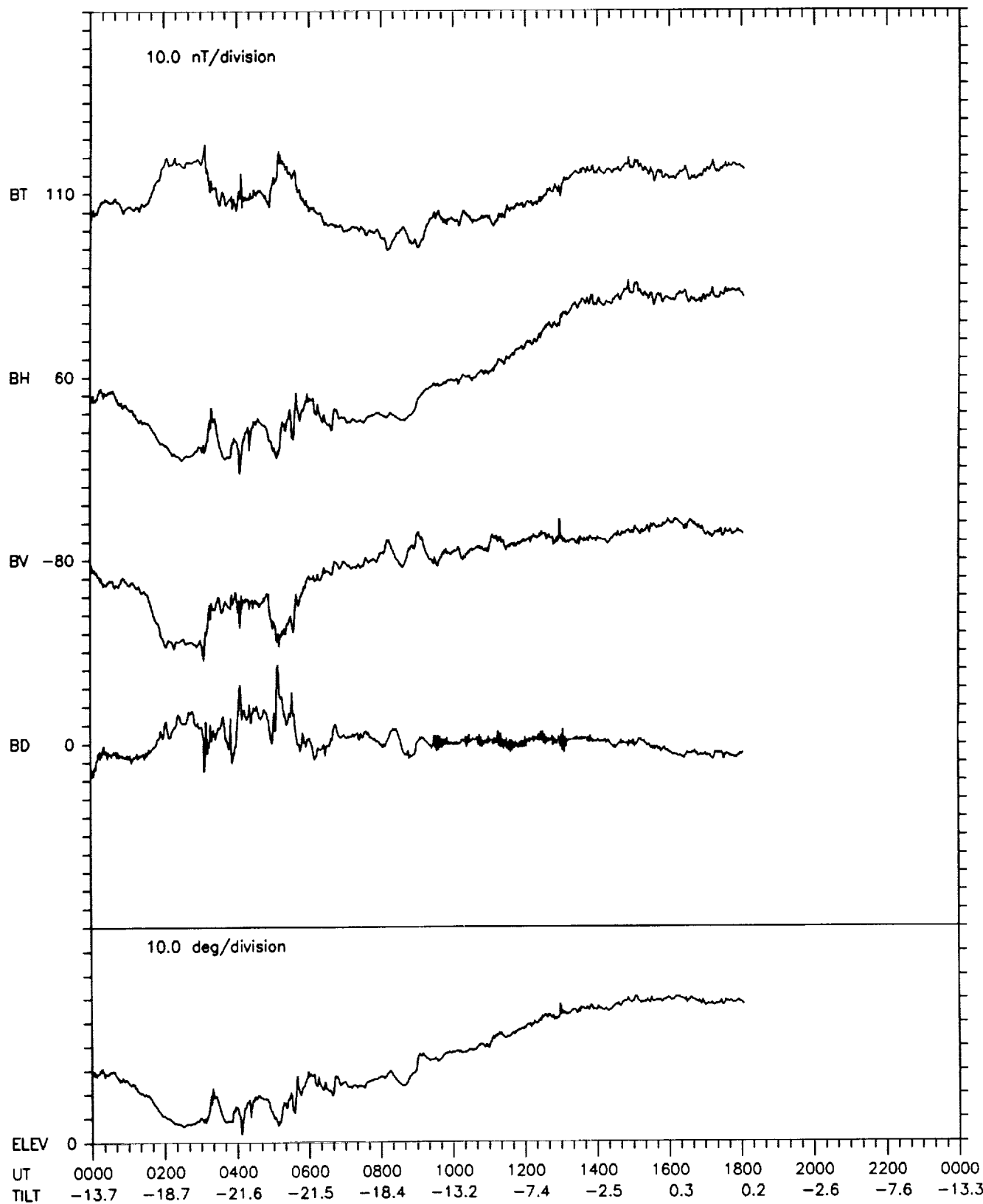
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
TILT -14.0 -19.1 -22.0 -21.9 -18.8 -13.6 -7.8 -2.9 -0.1 -0.1 -3.0 -7.9 -13.7

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 52 FEB 21

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

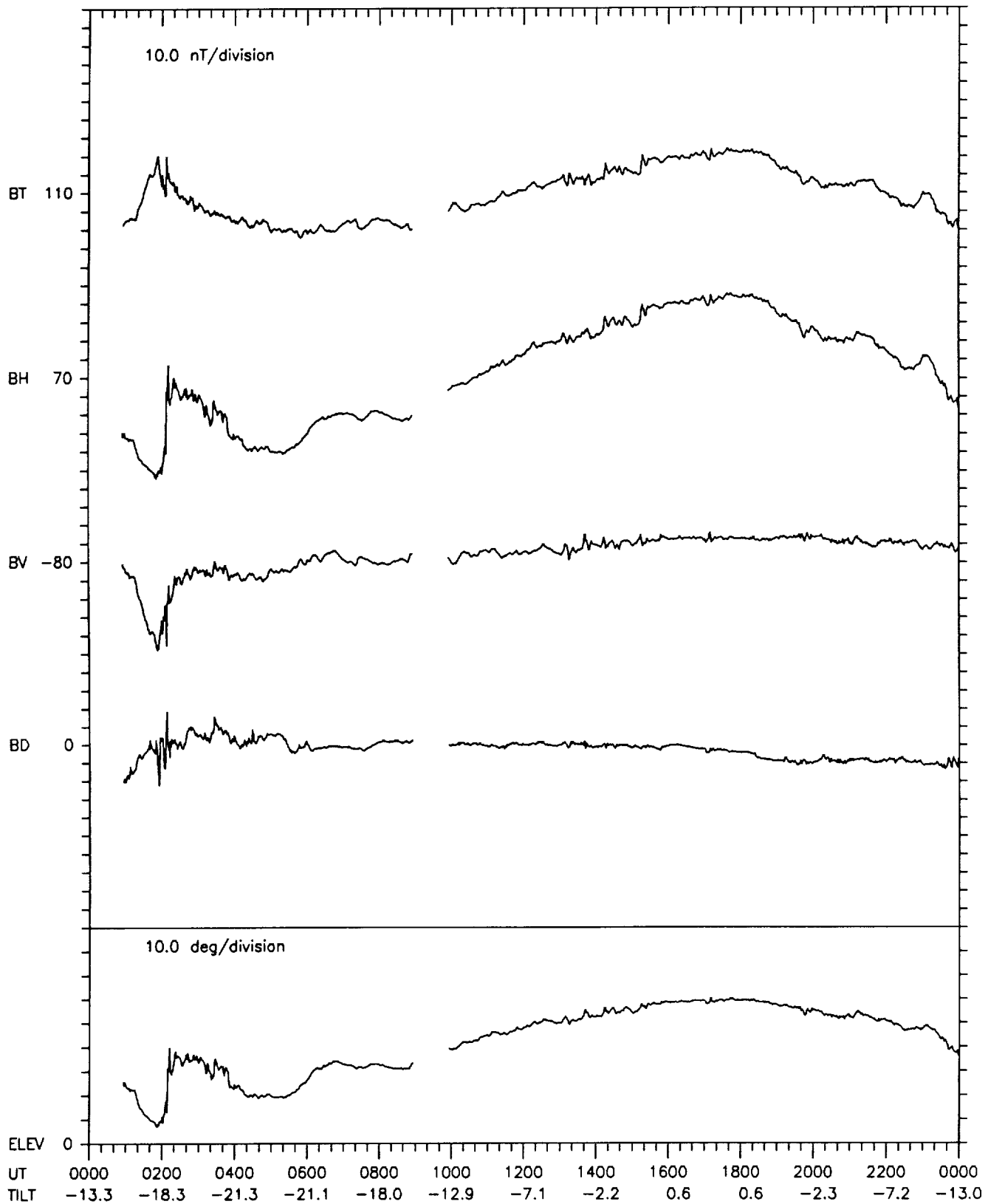


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 53 FEB 22

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

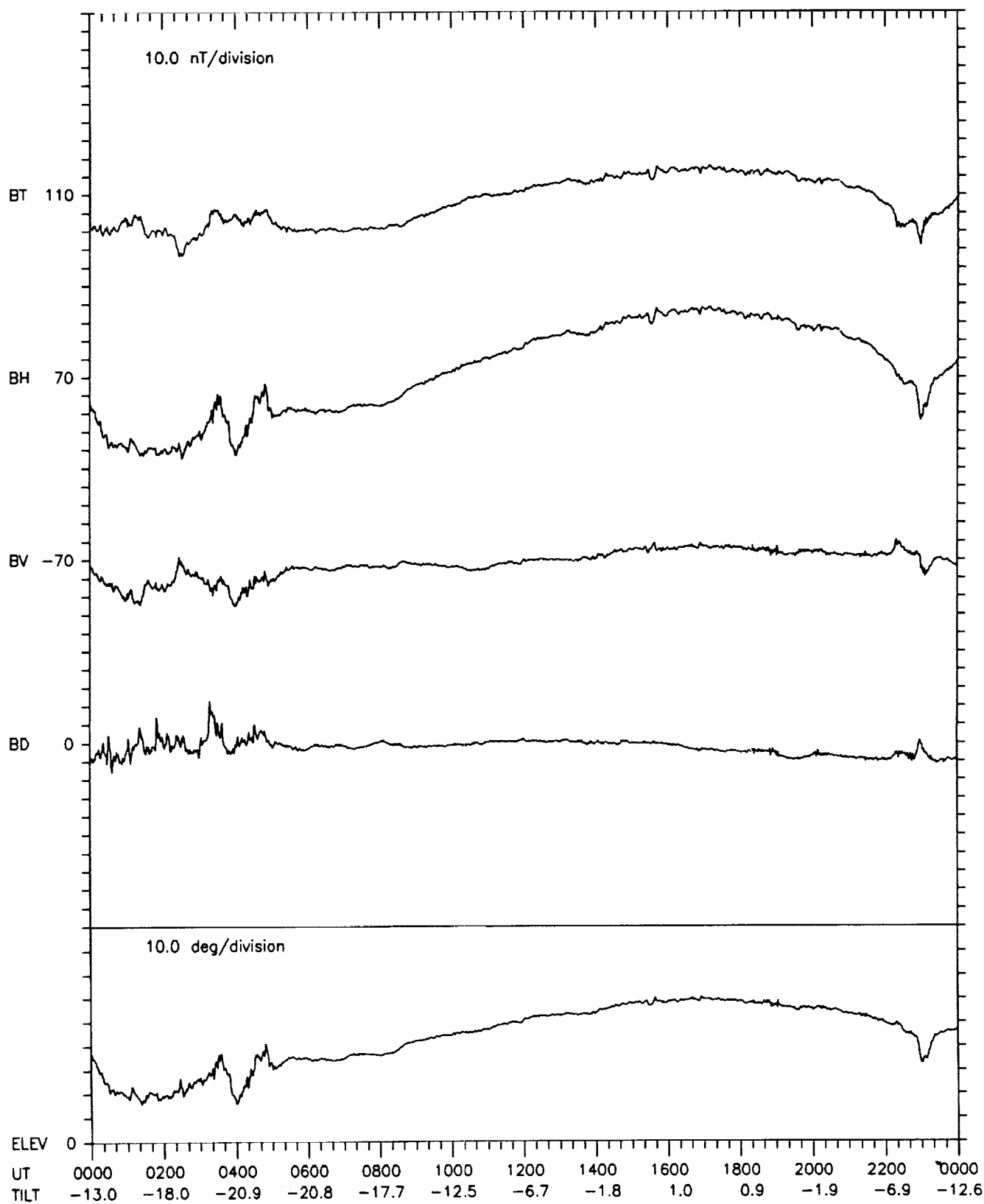


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 54 FEB 23

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

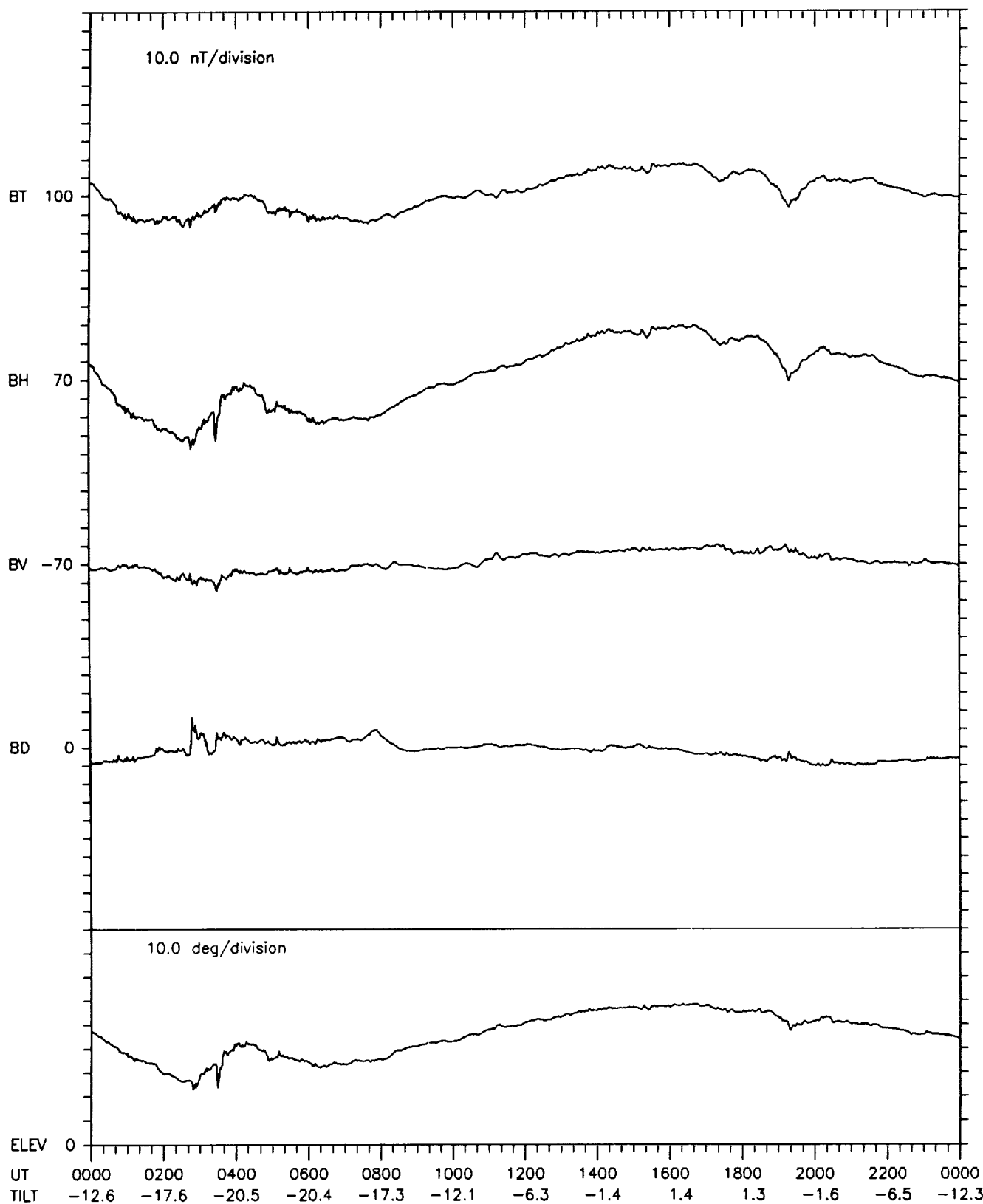
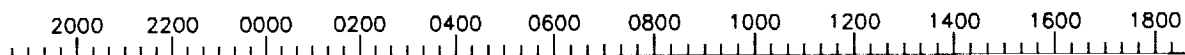


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 55 FEB 24

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5

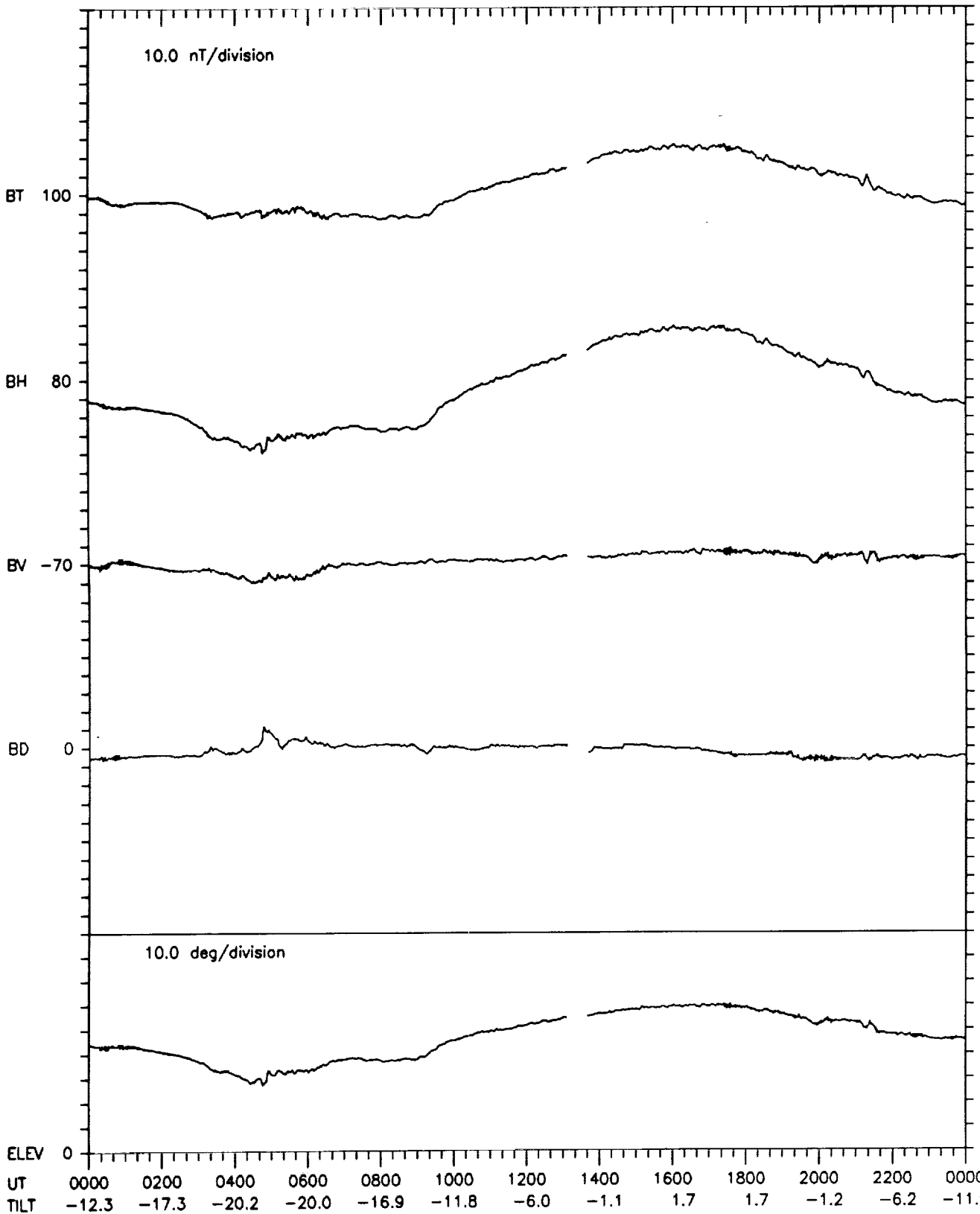
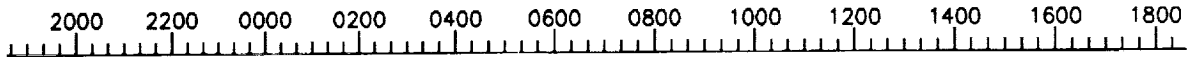


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 56 FEB 25

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5



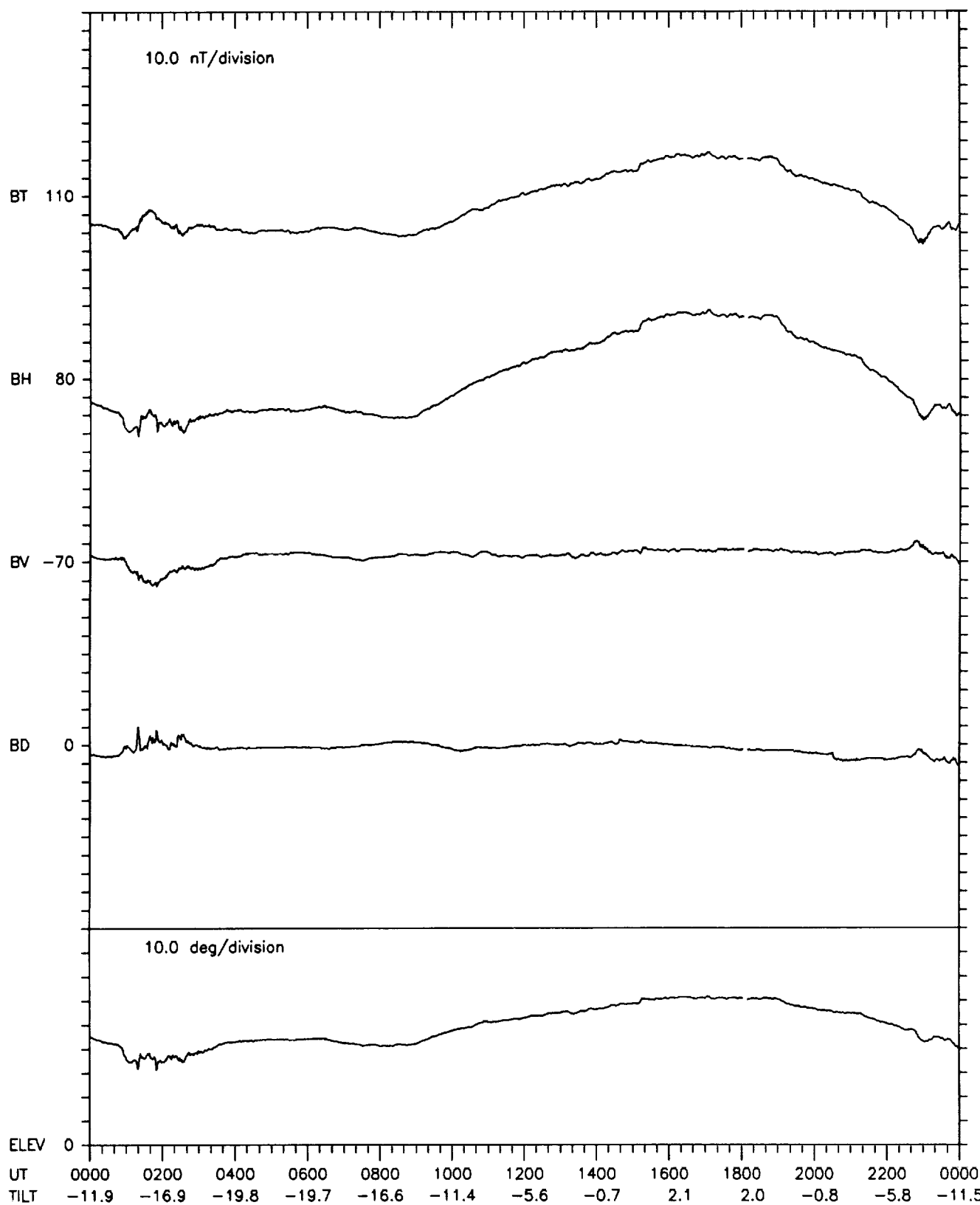
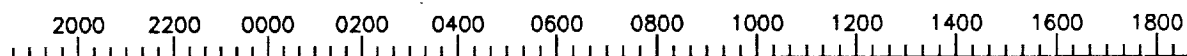


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 57 FEB 26

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5

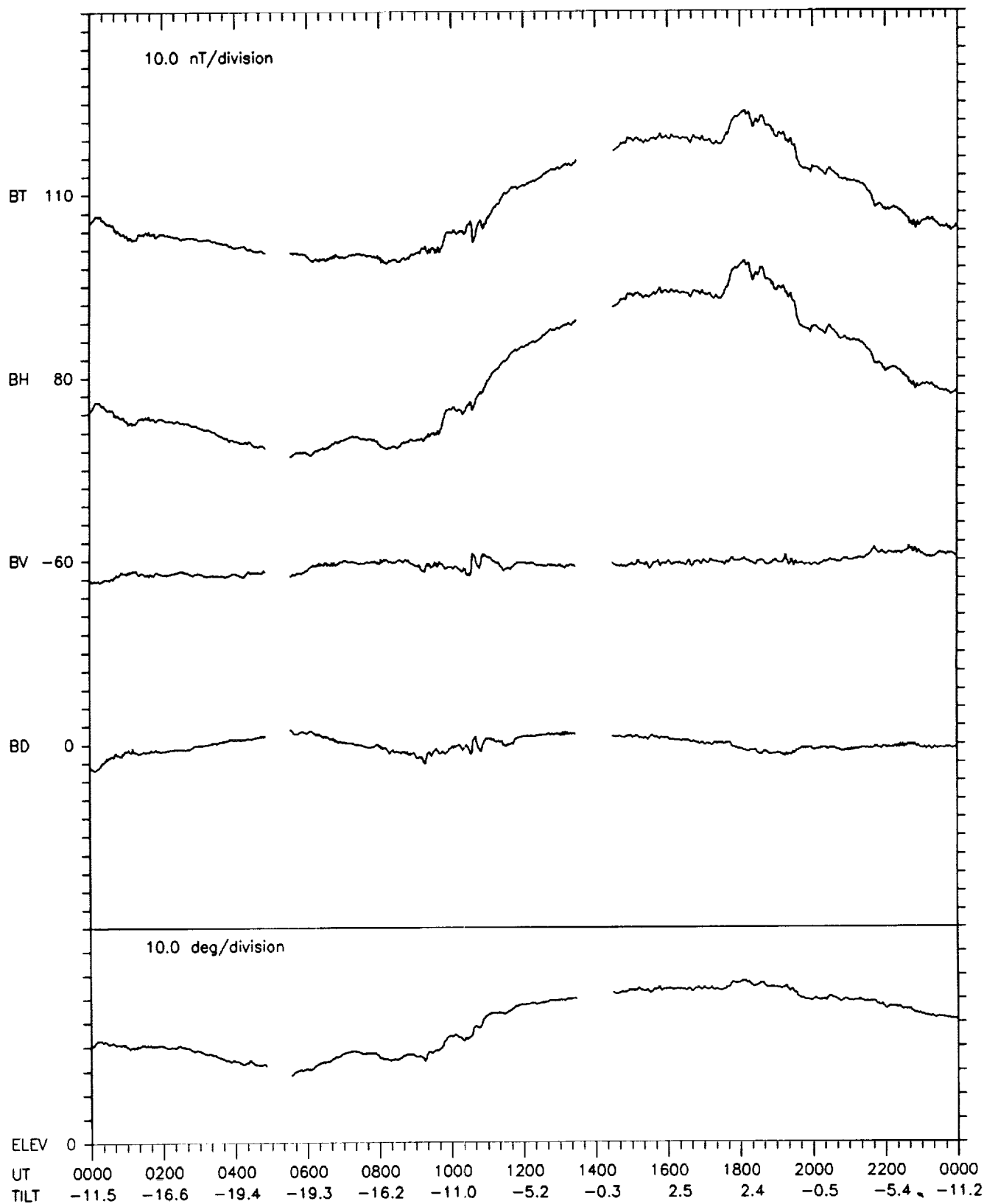
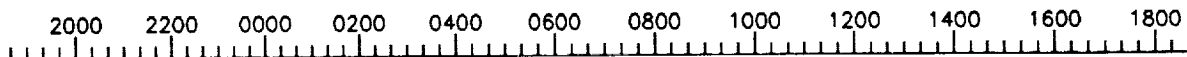


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 58 FEB 27

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5

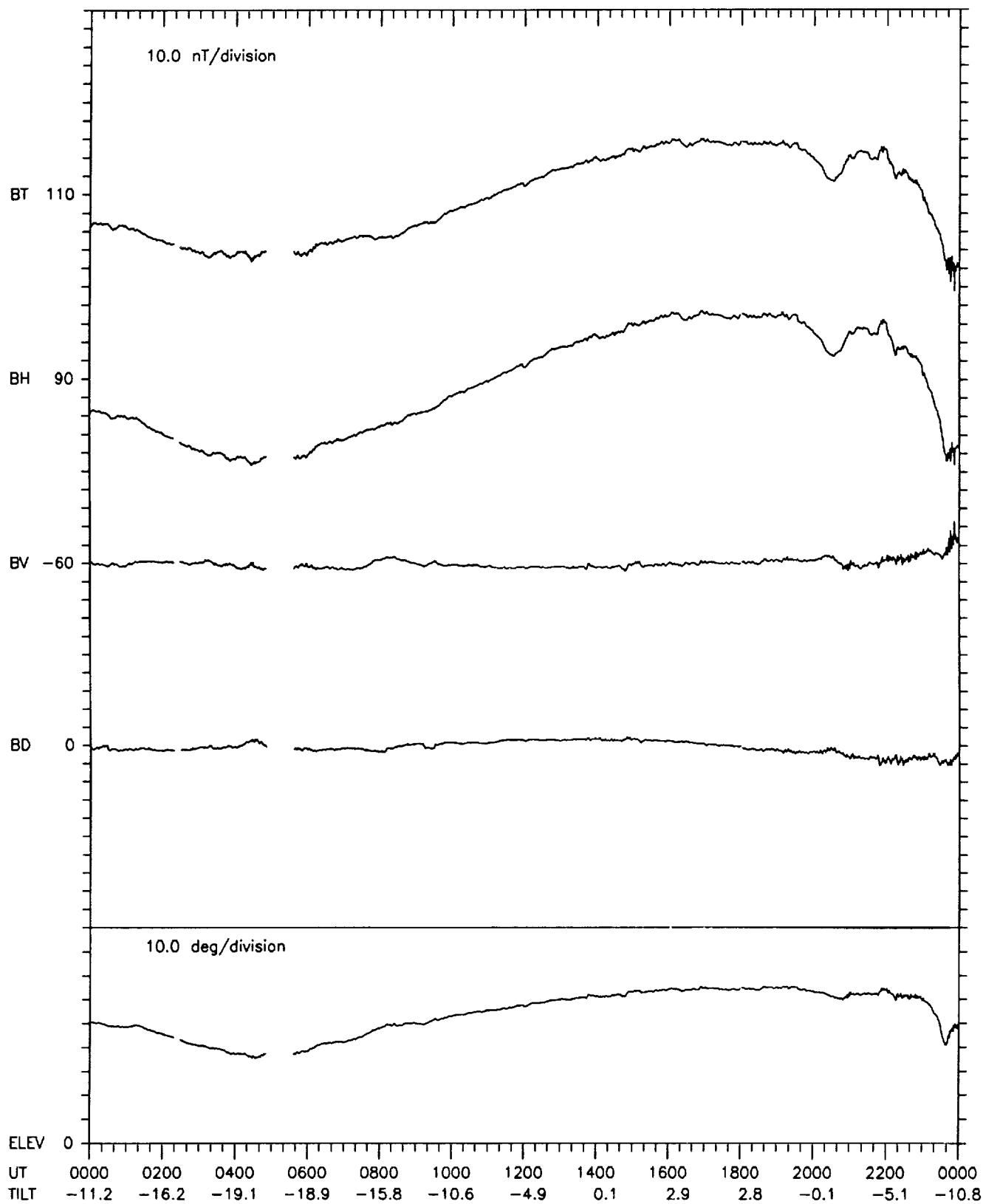


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 59 FEB 28

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

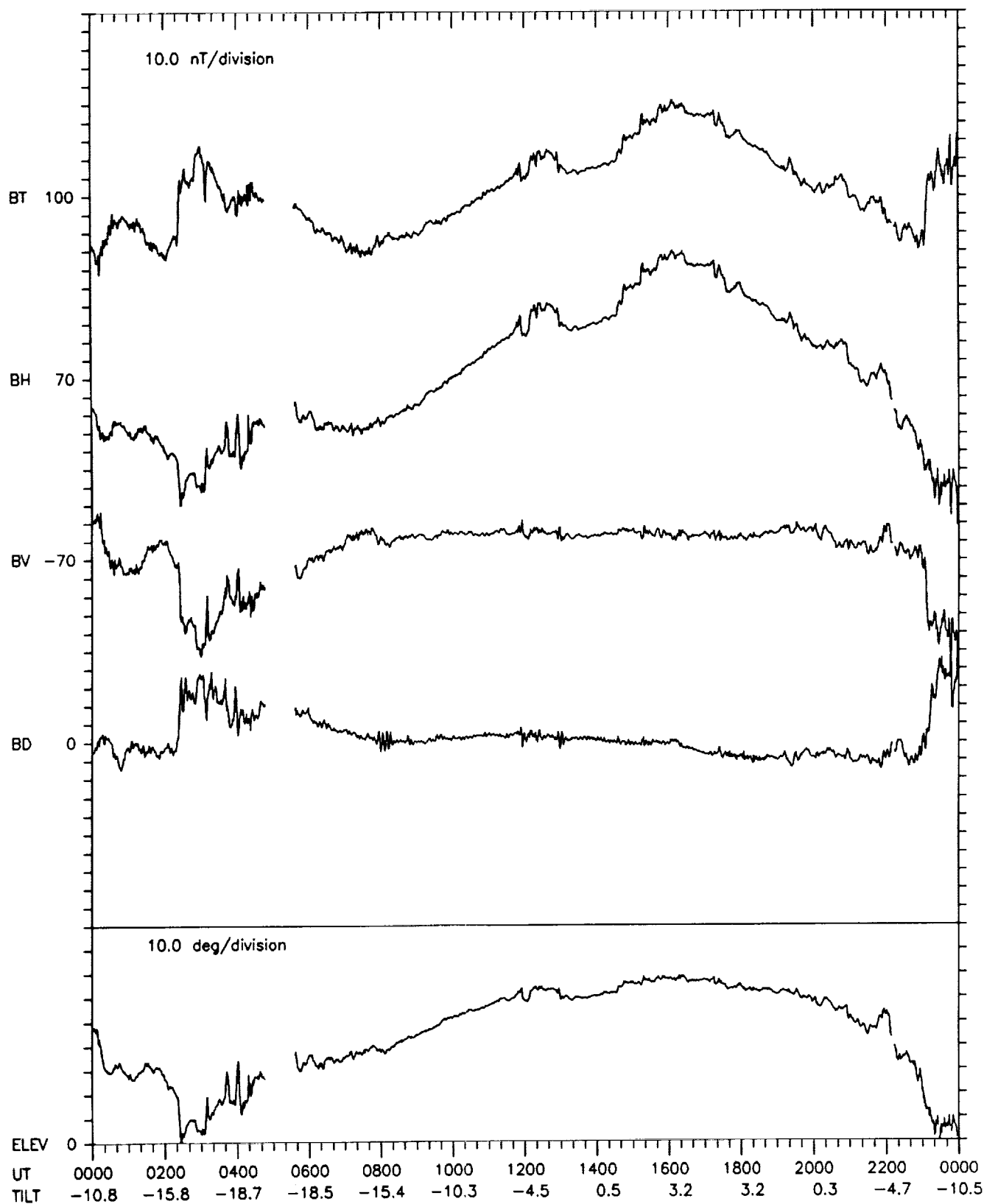


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 60 MAR 1

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

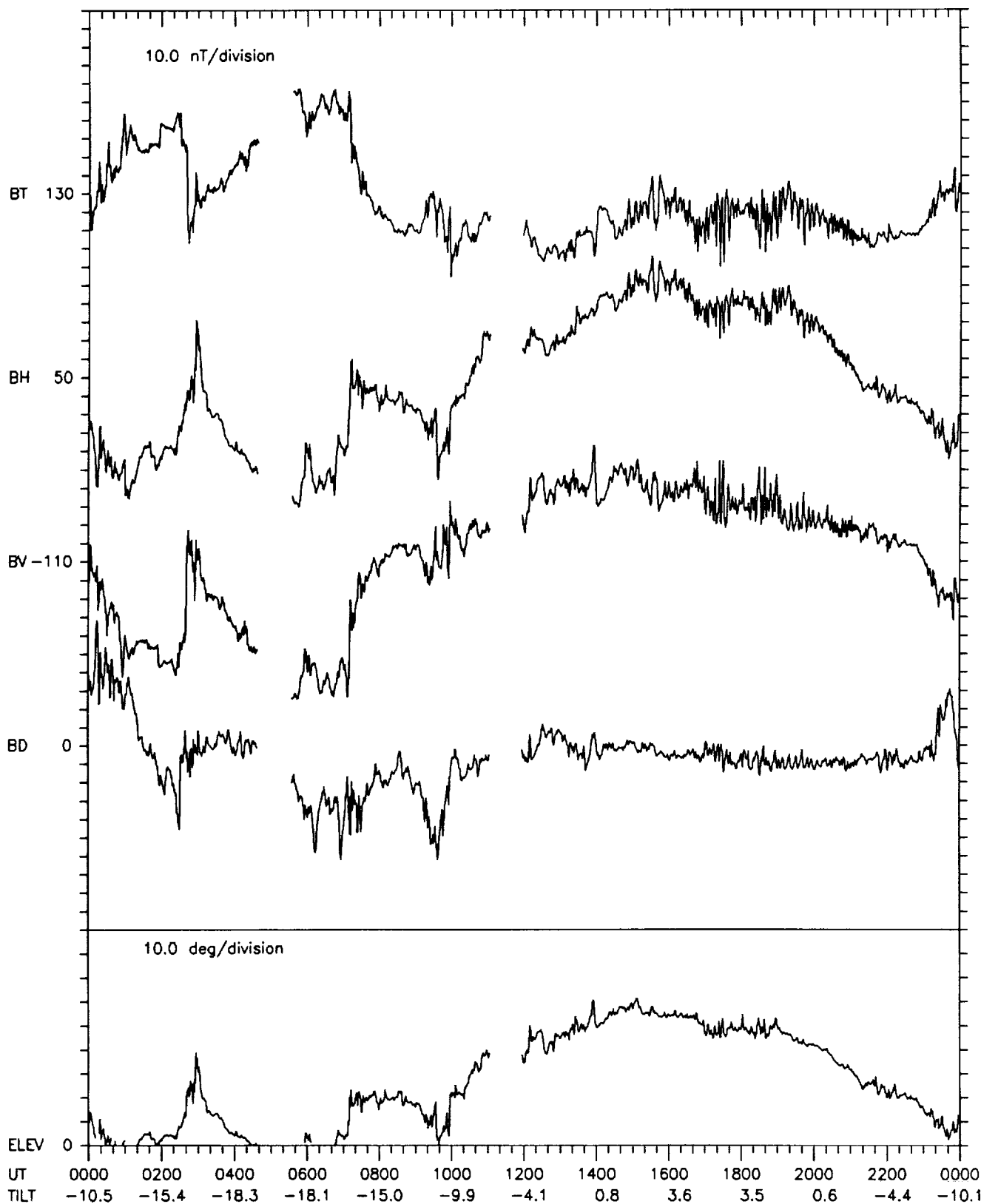
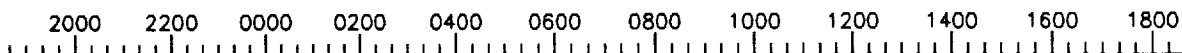


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 61 MAR 2

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5

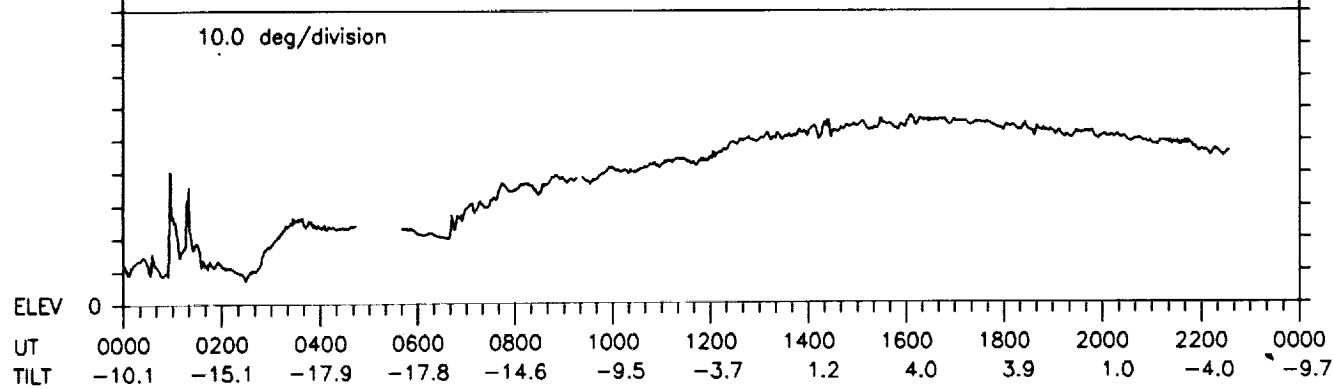
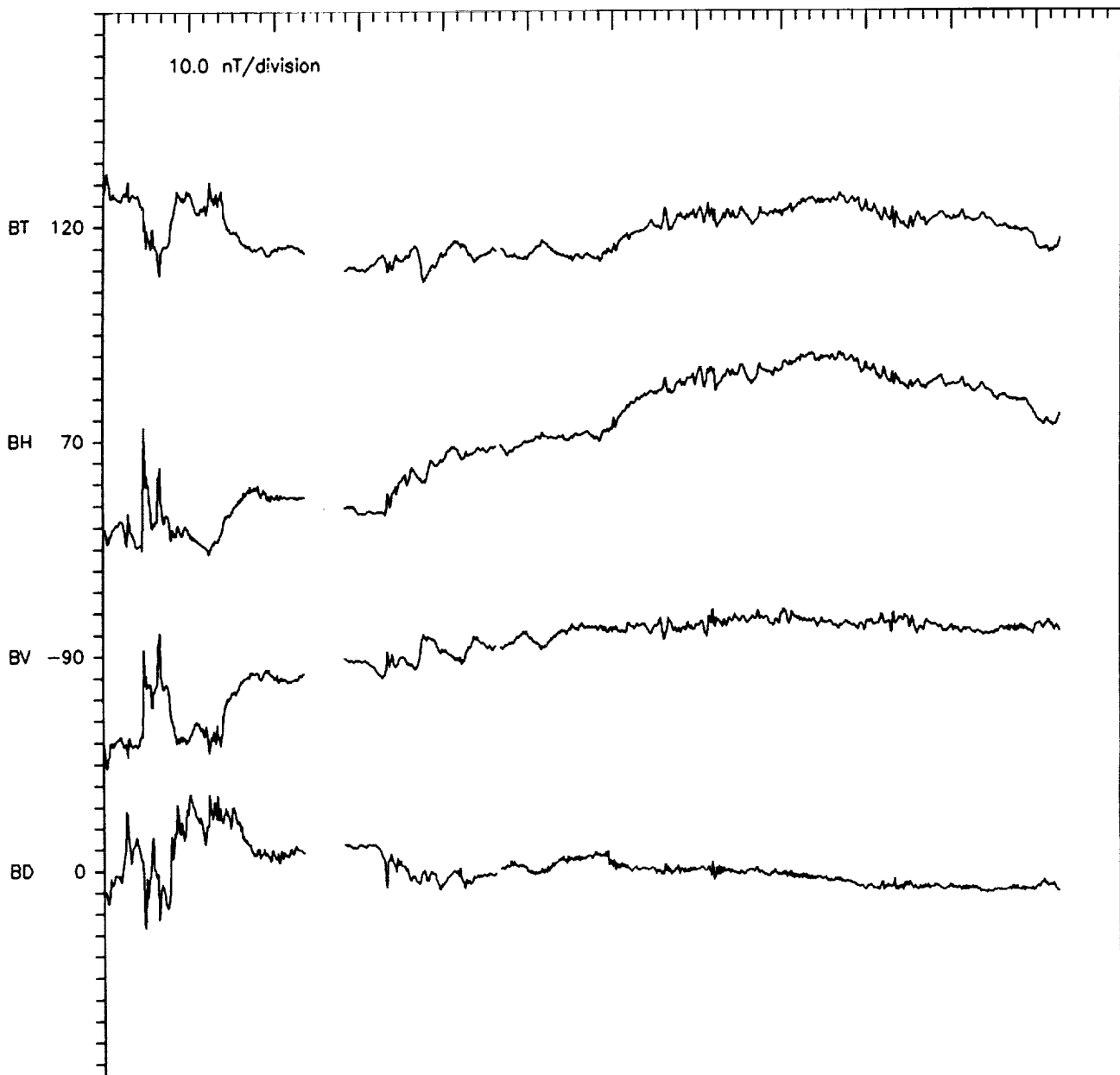


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 62 MAR 3

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

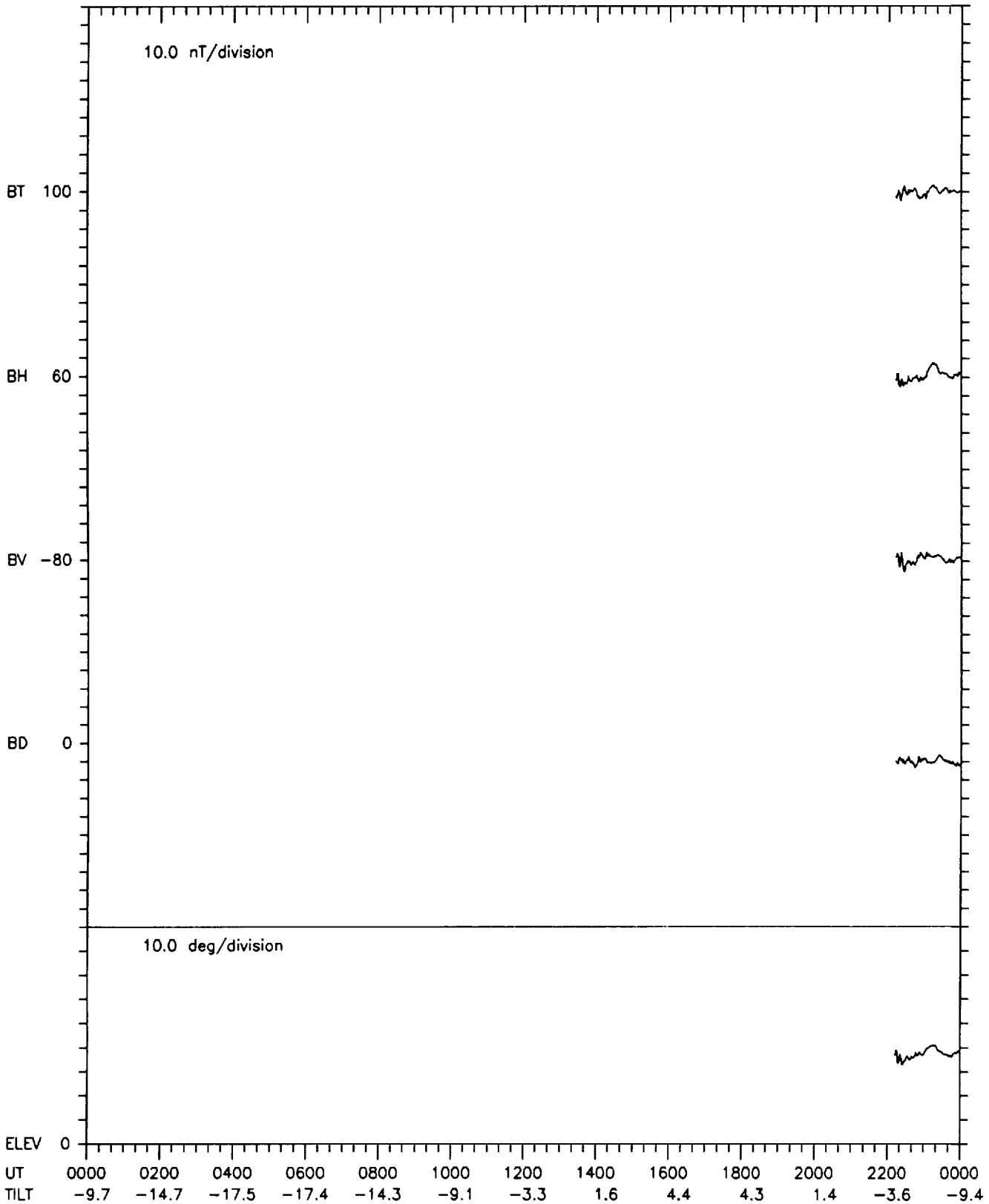


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 63 MAR 4

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

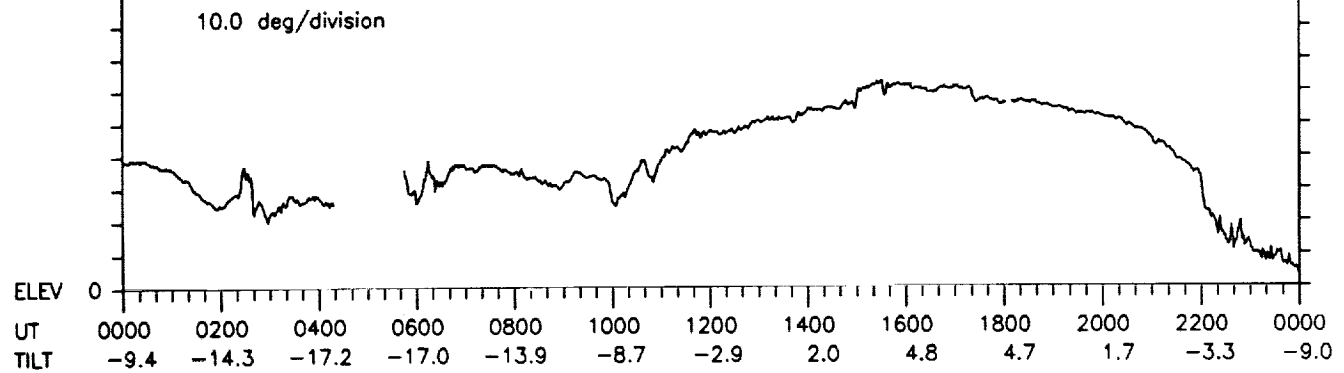
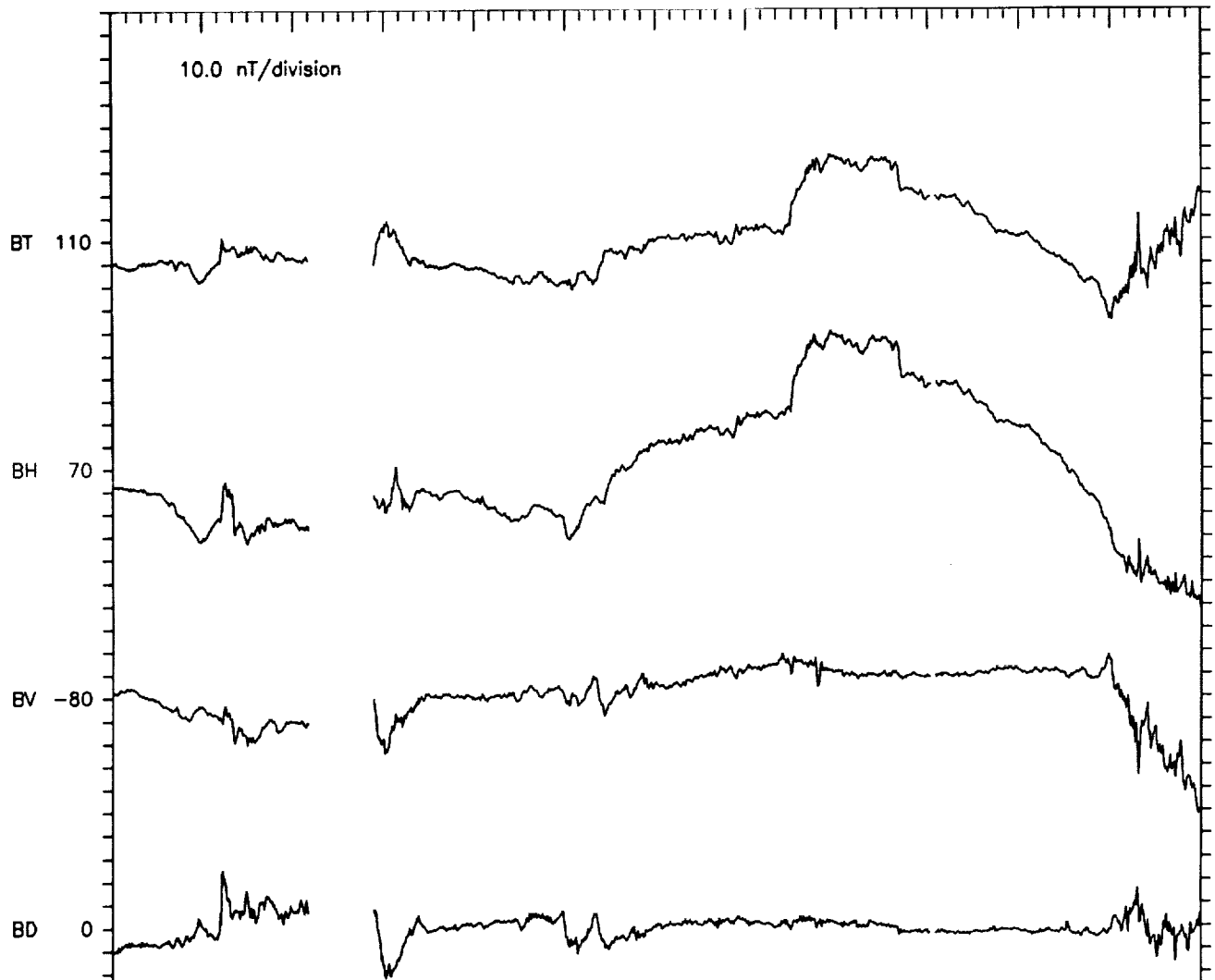
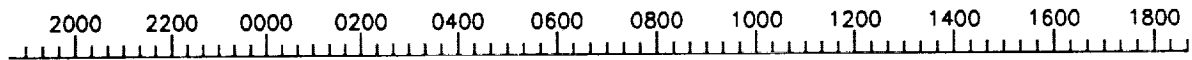


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 64 MAR 5

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5



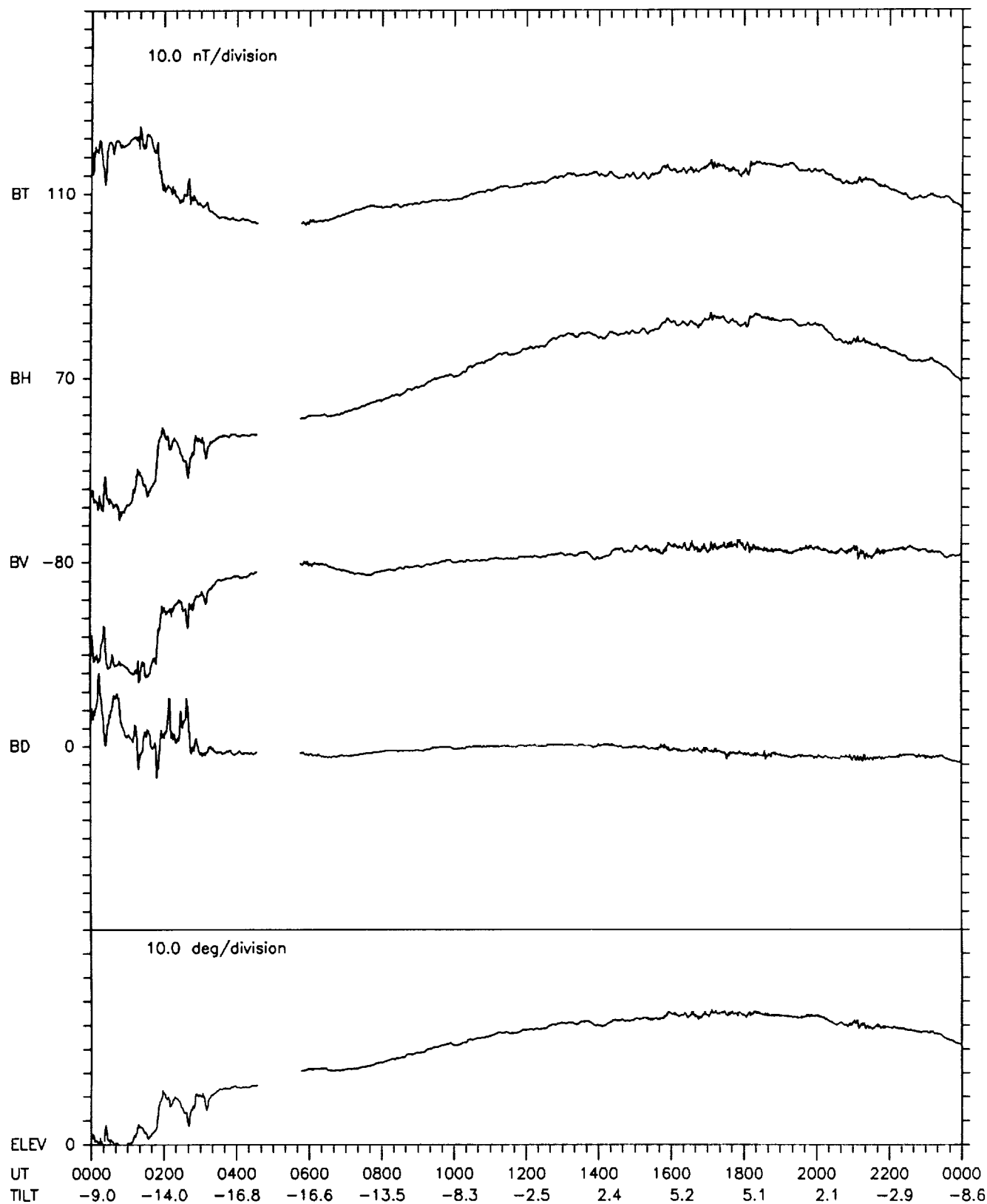
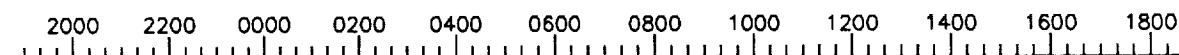


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 65 MAR 6

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5

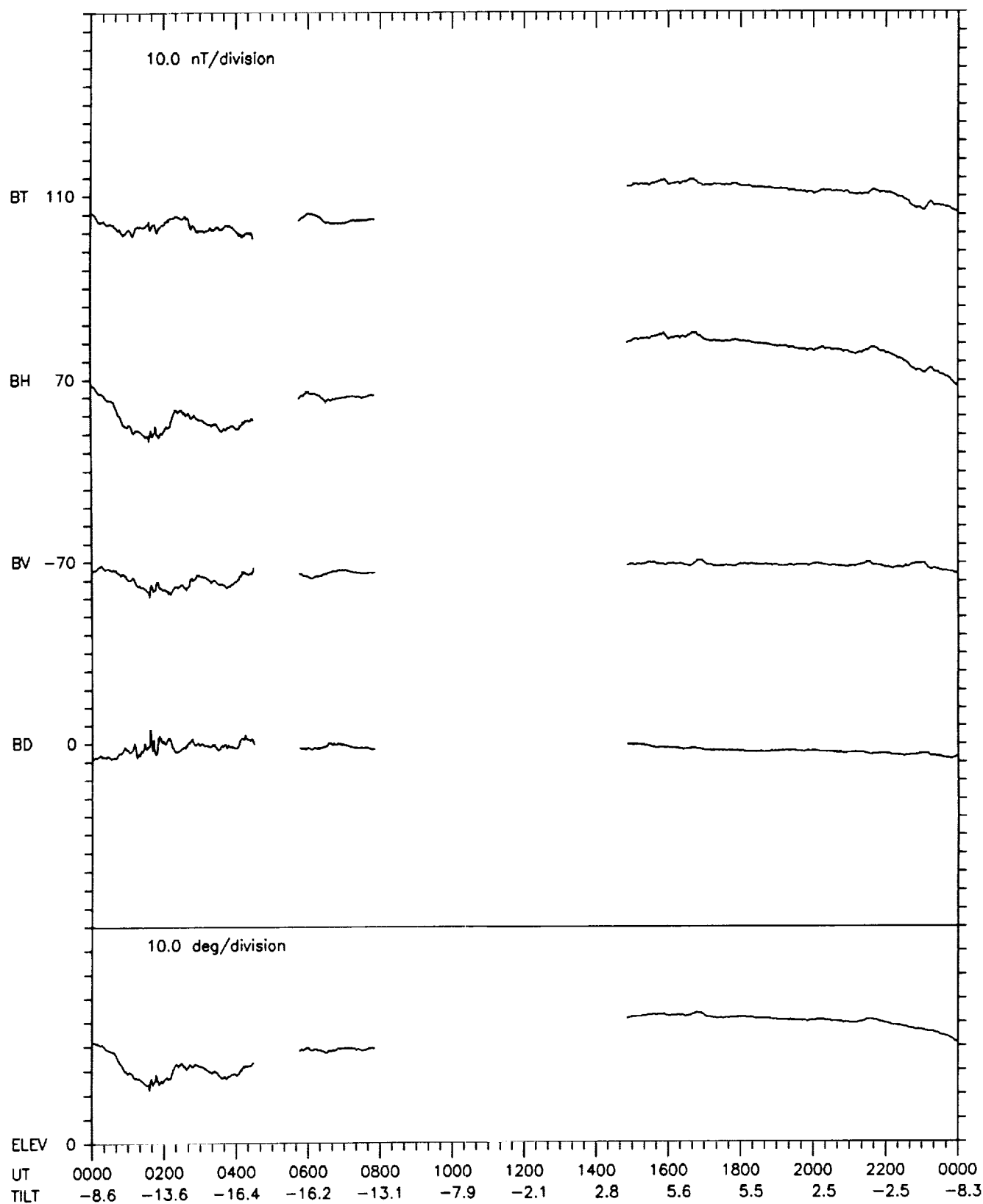


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 66 MAR 7

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

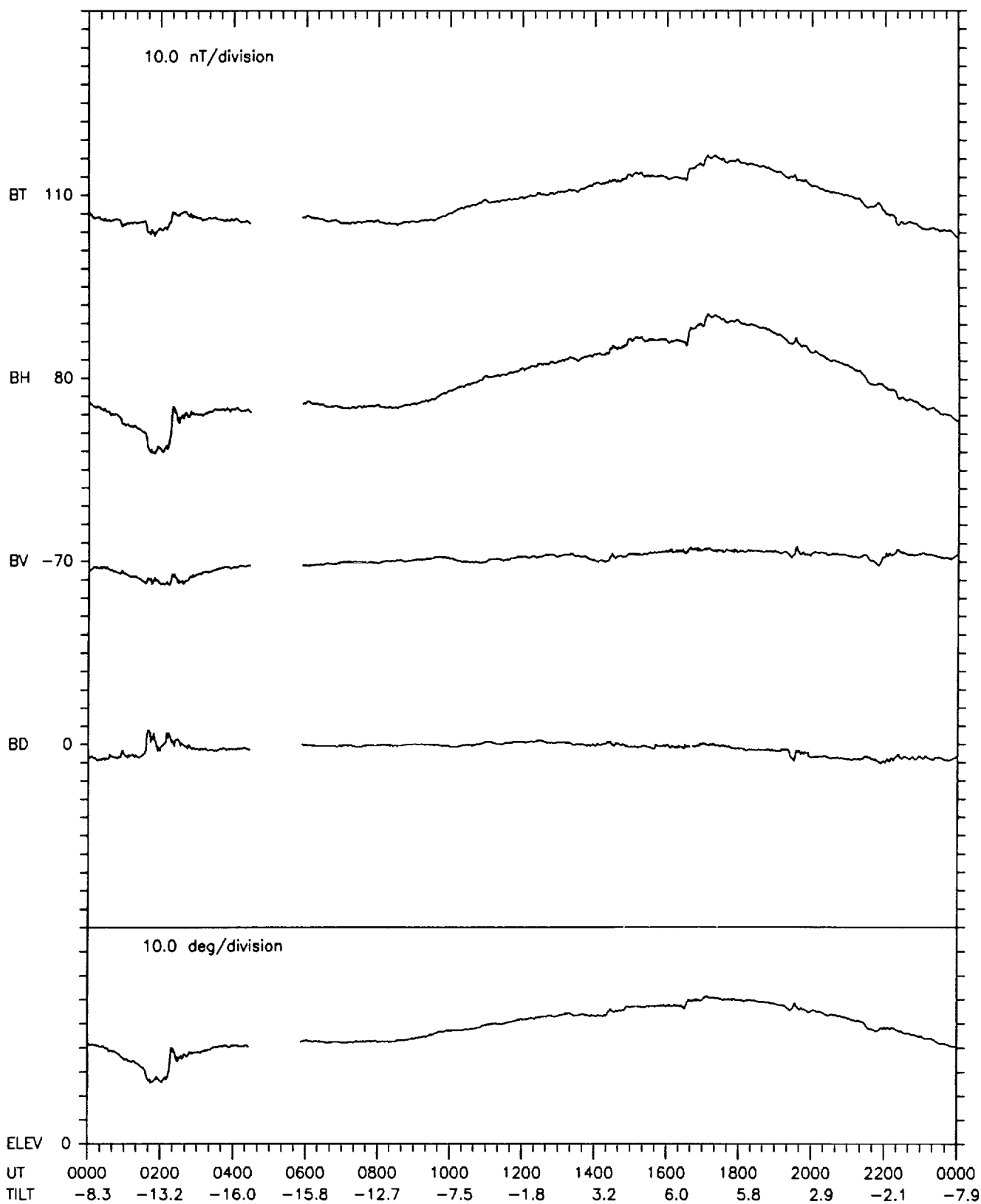


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 67 MAR 8

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

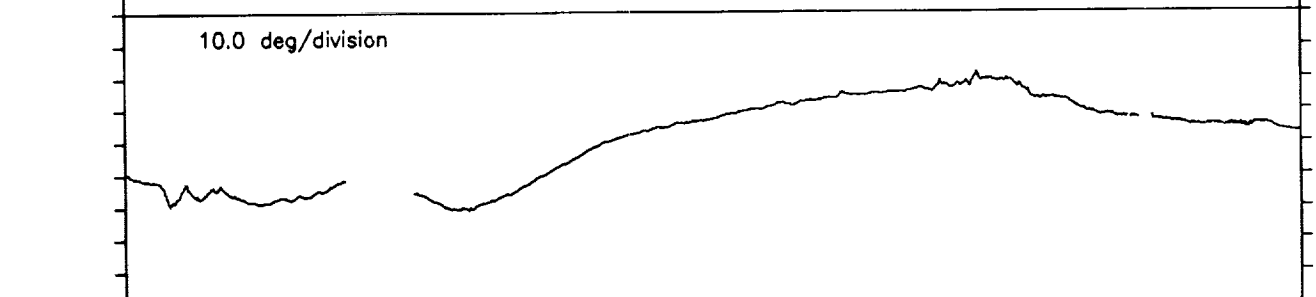
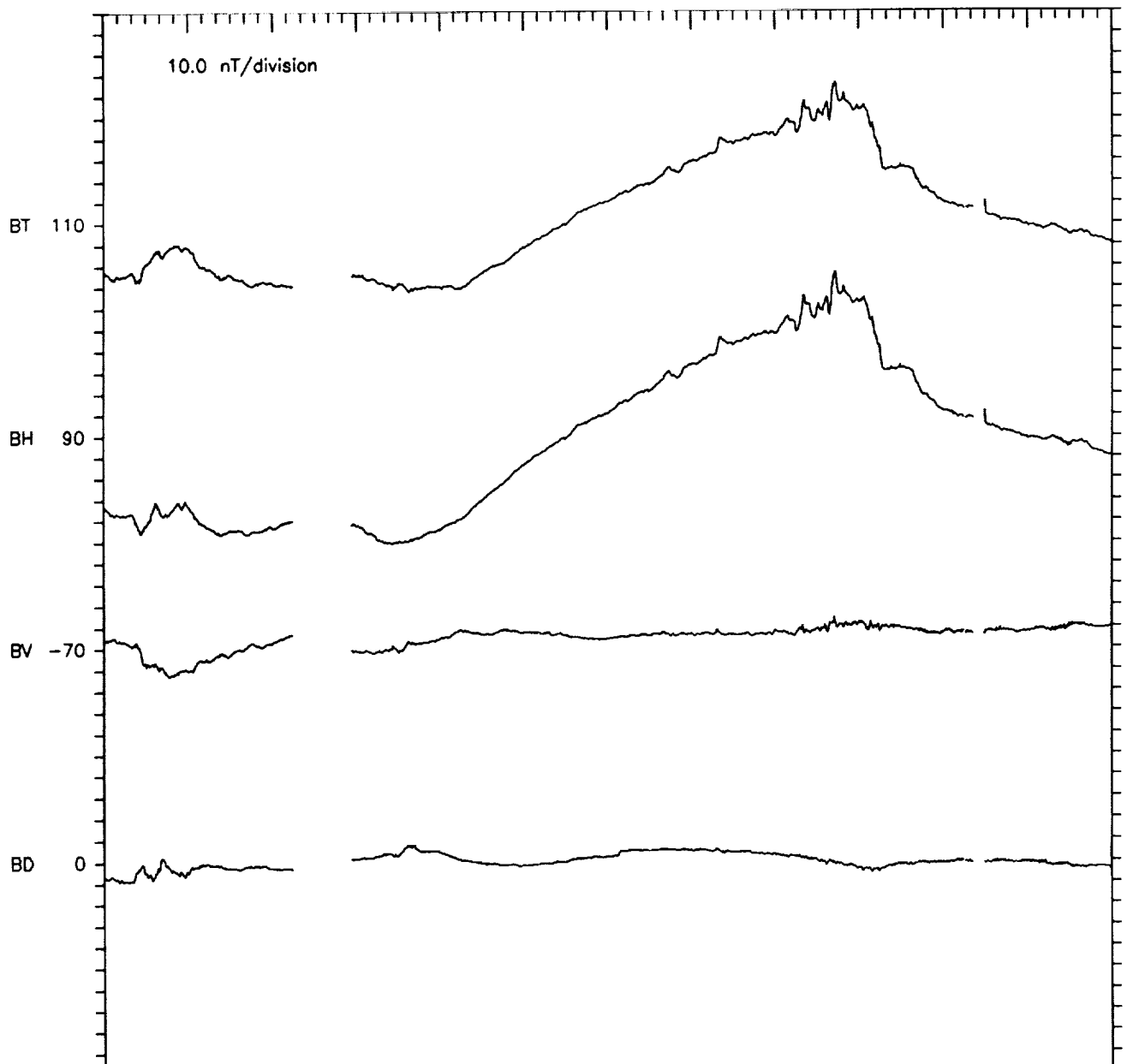
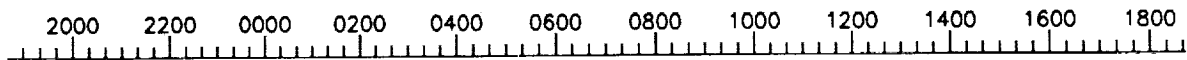


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 68 MAR 9

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5



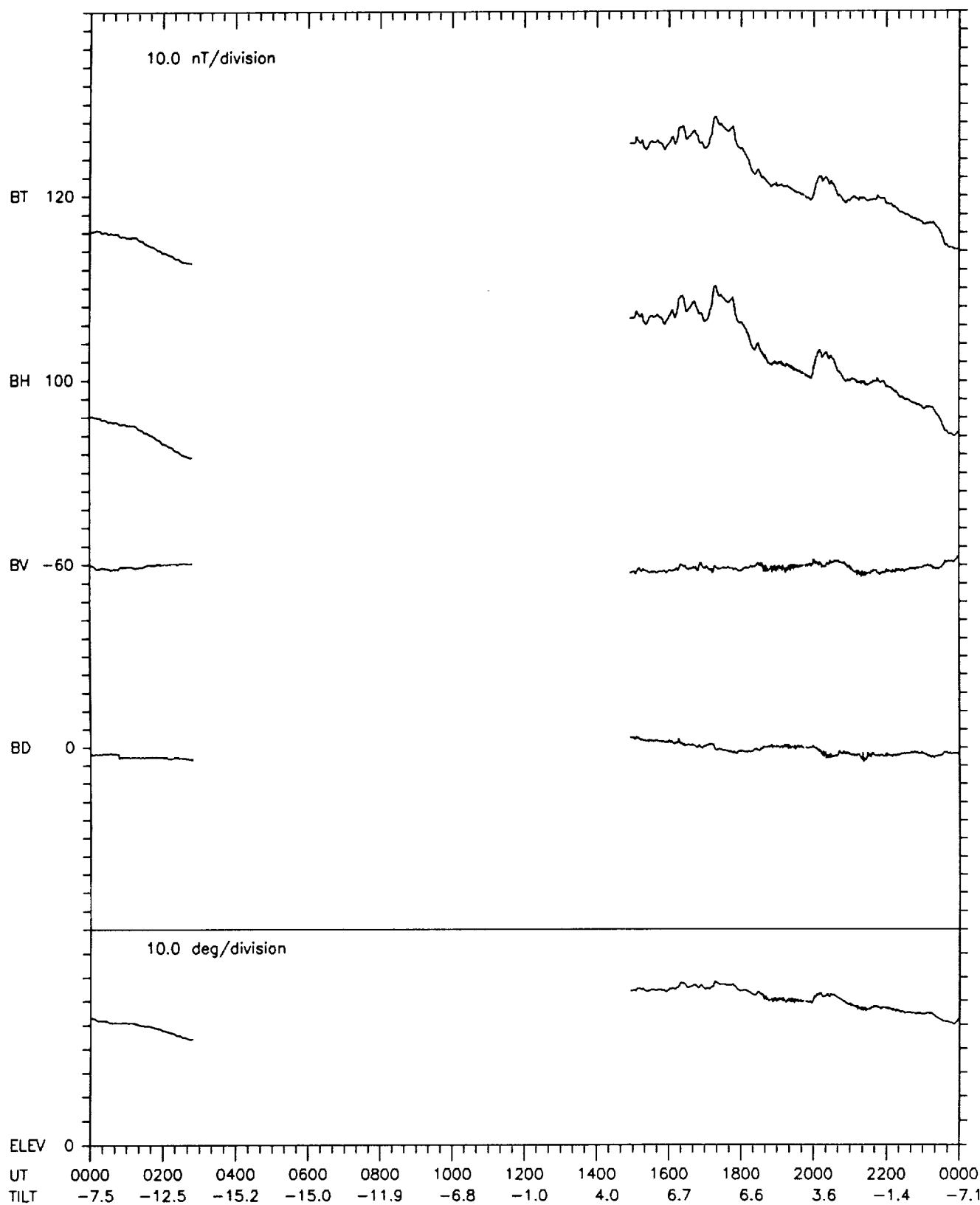
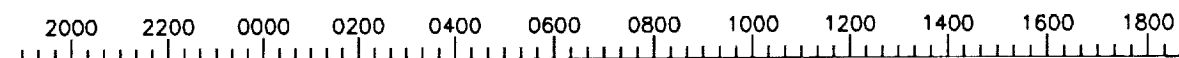
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
TILT -7.9 -12.8 -15.6 -15.4 -12.3 -7.1 -1.4 3.6 6.4 6.2 3.2 -1.8 -7.5

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 69 MAR 10

(GEOLON, MAGLAT) = ( -75.6, 11.2)

MLT 5

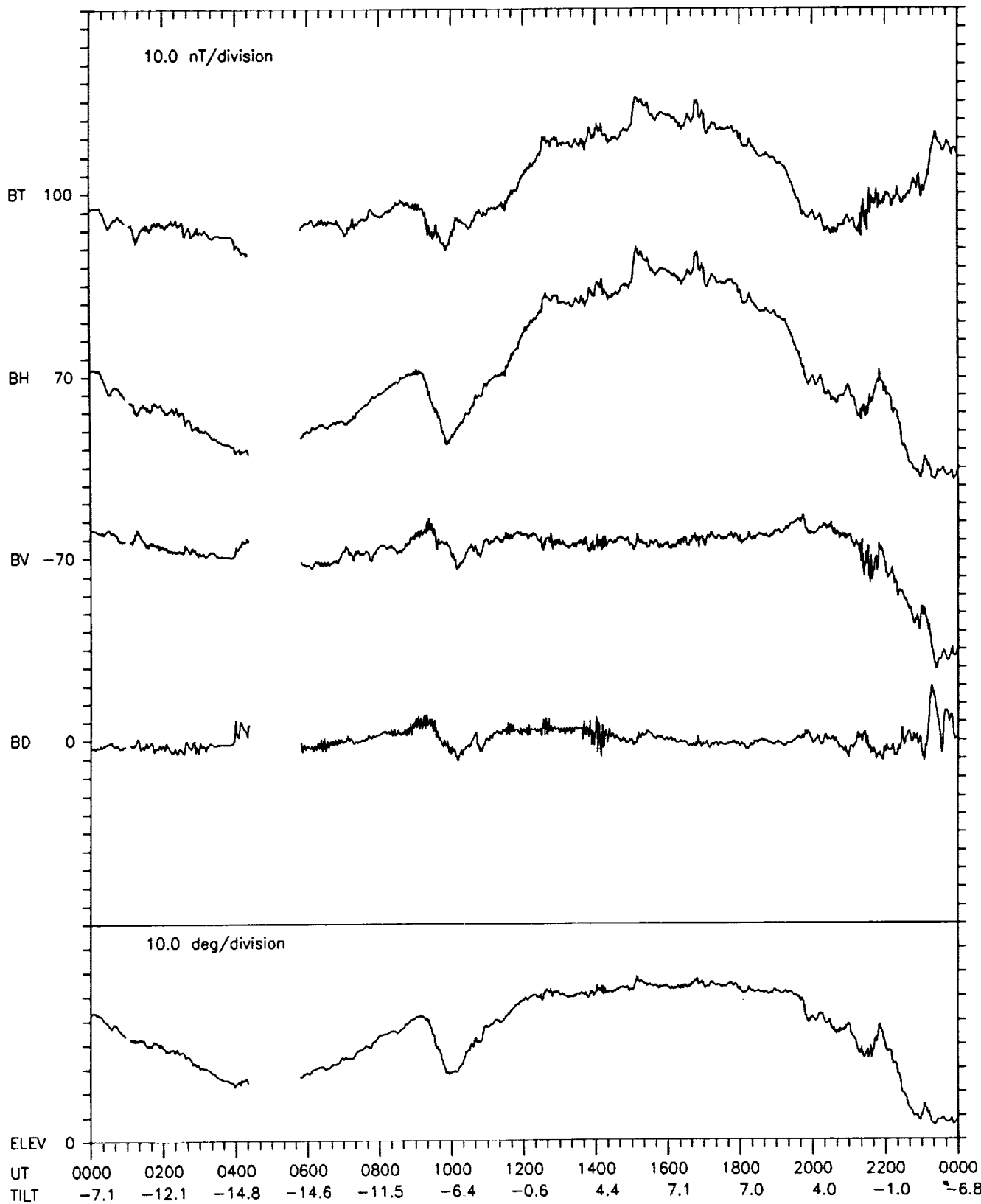
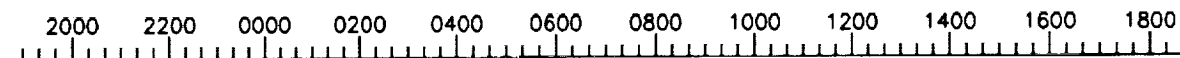


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 70 MAR 11

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5

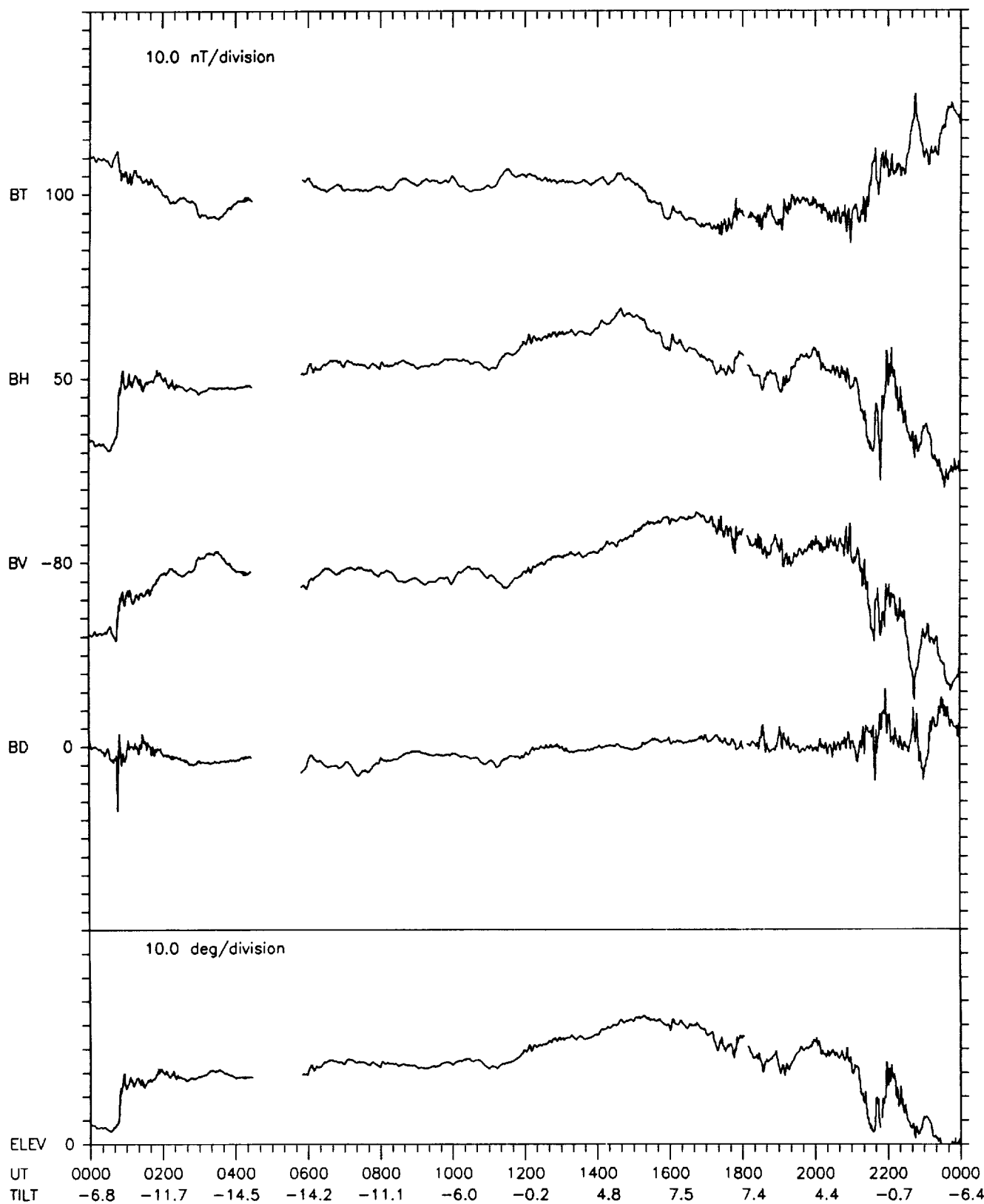


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 71 MAR 12

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

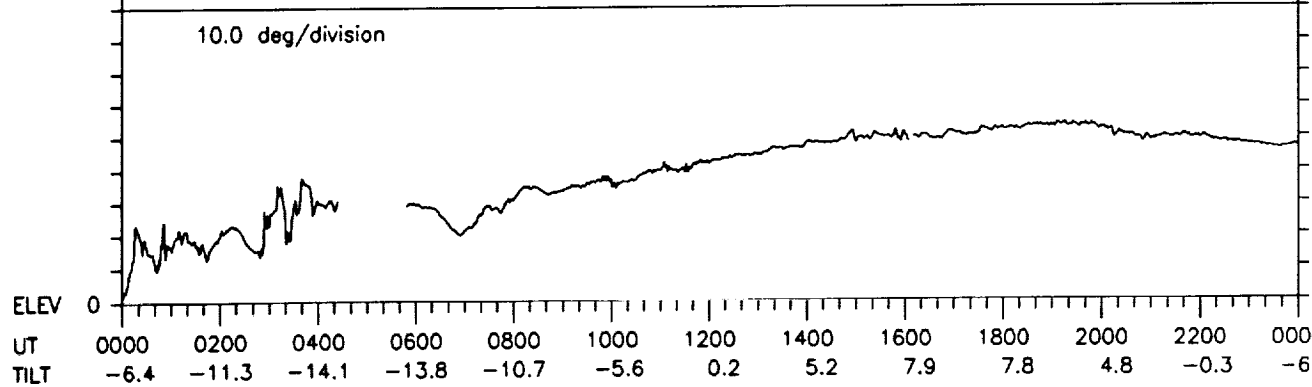
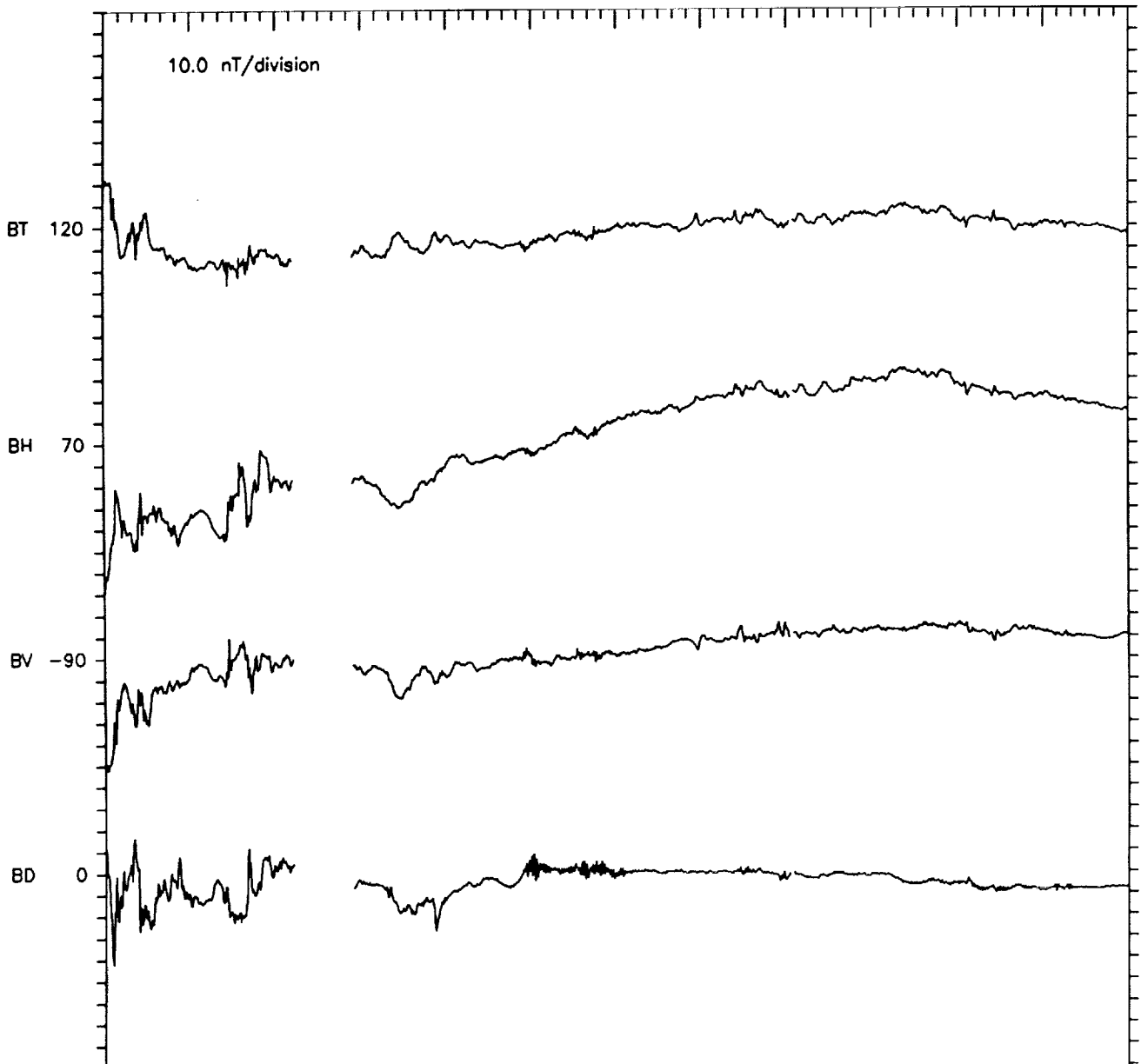
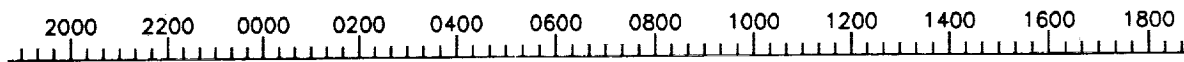


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 72 MAR 13

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5



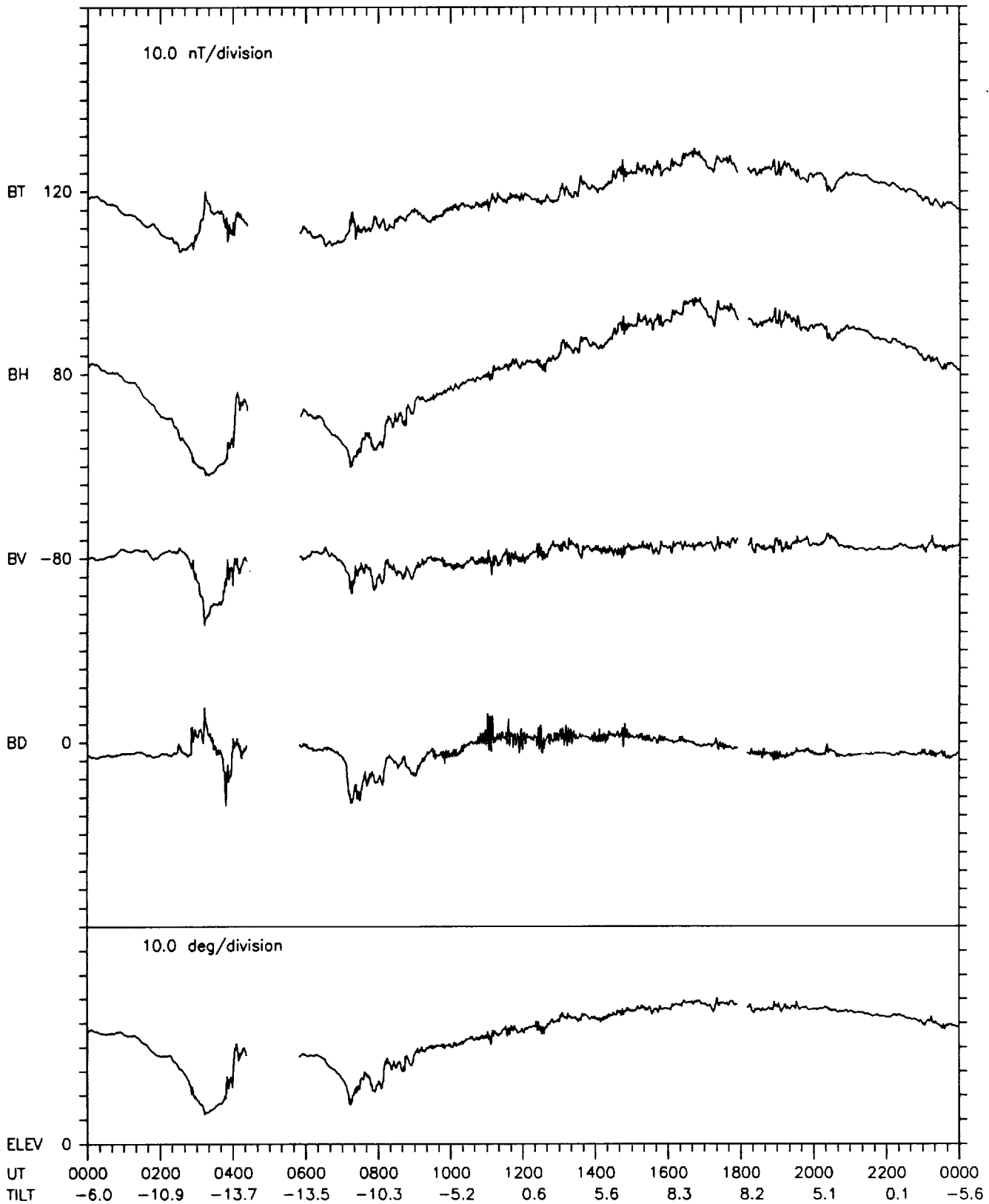


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 73 MAR 14

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

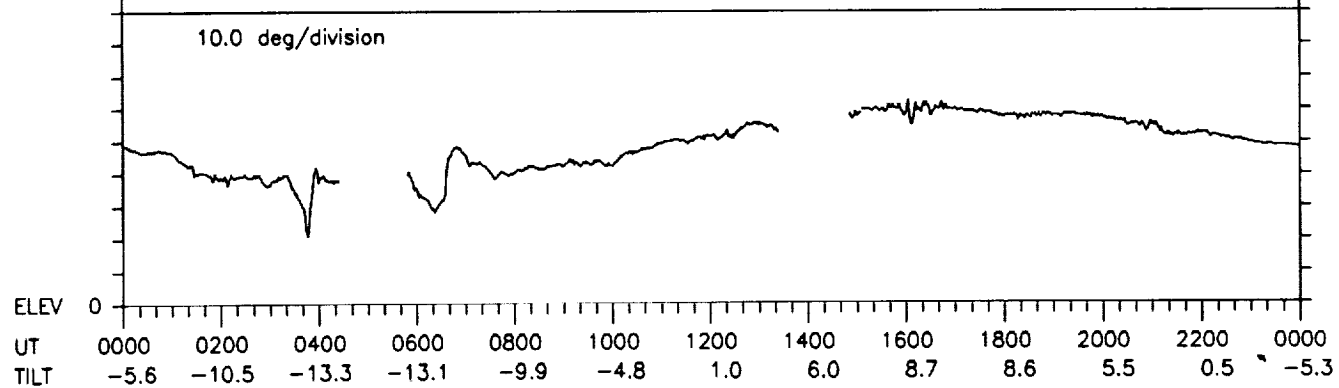
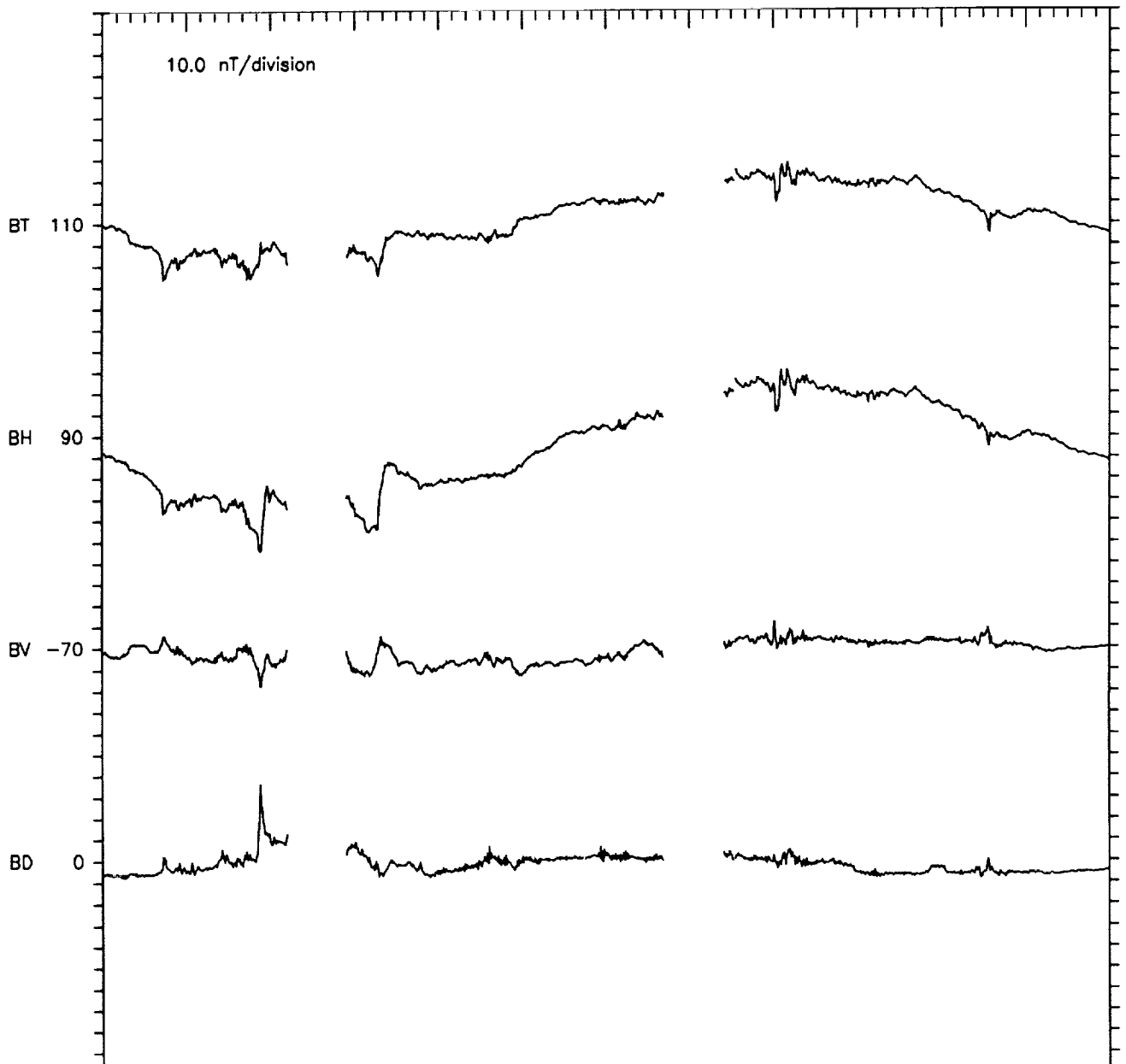


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 74 MAR 15

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

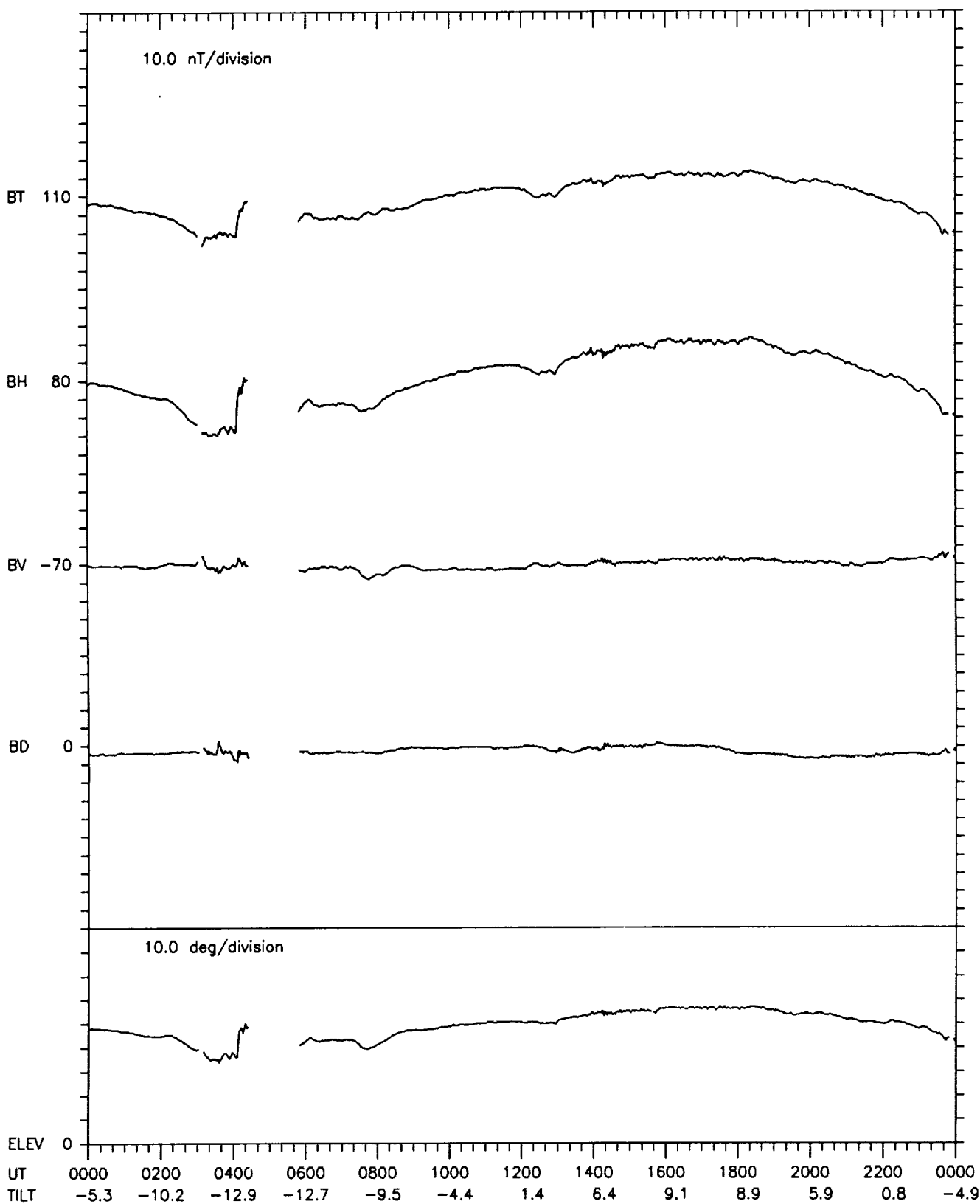
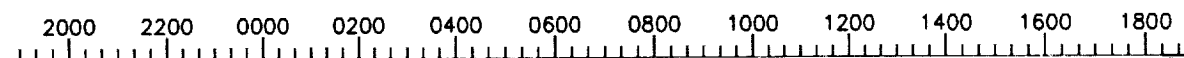


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 75 MAR 16

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5

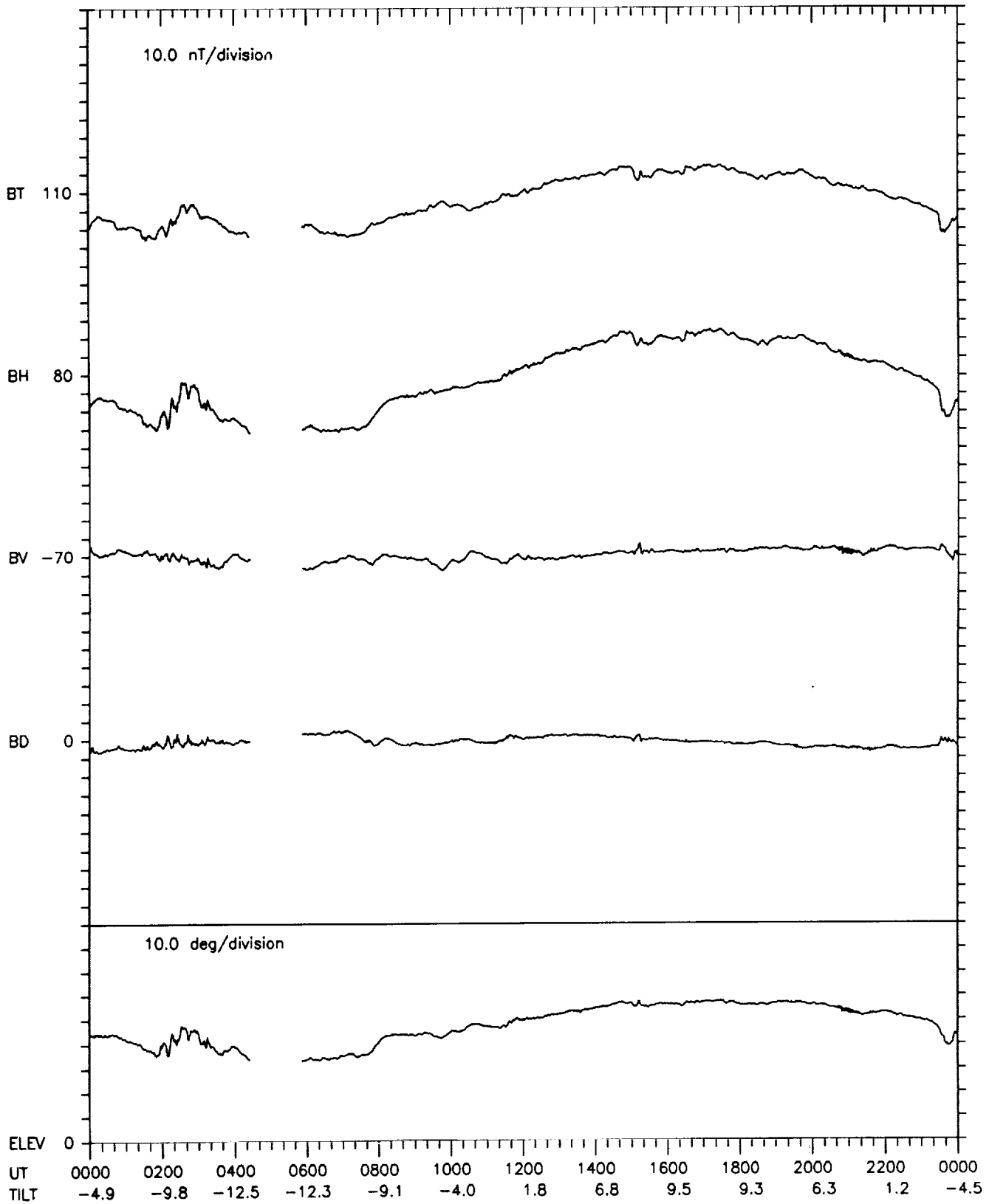


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 76 MAR 17

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

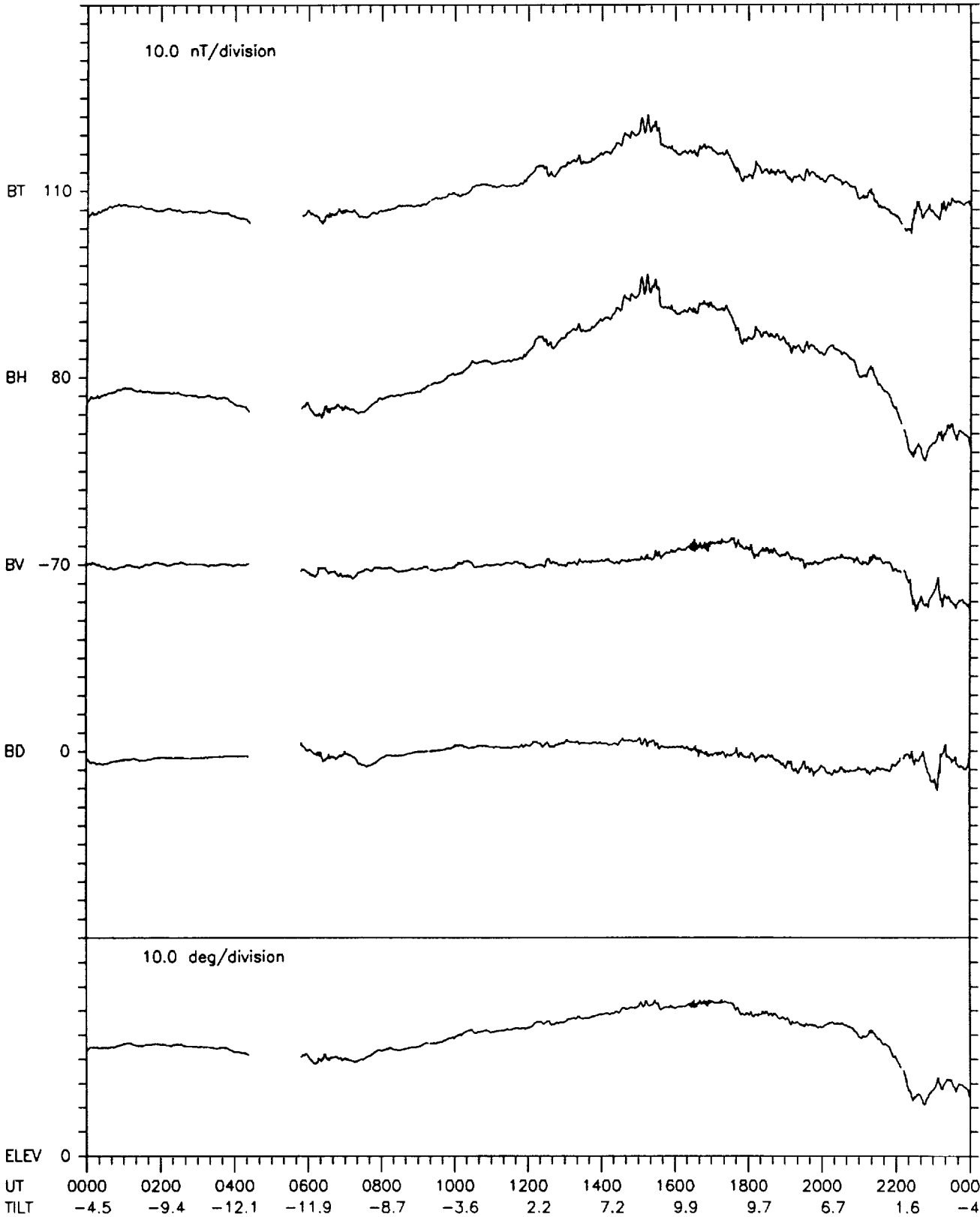
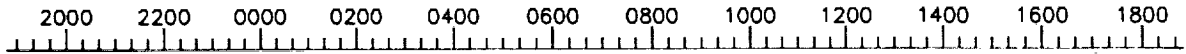


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 77 MAR 18

(GEOLON, MAGLAT) = ( -75.2, 11.2)

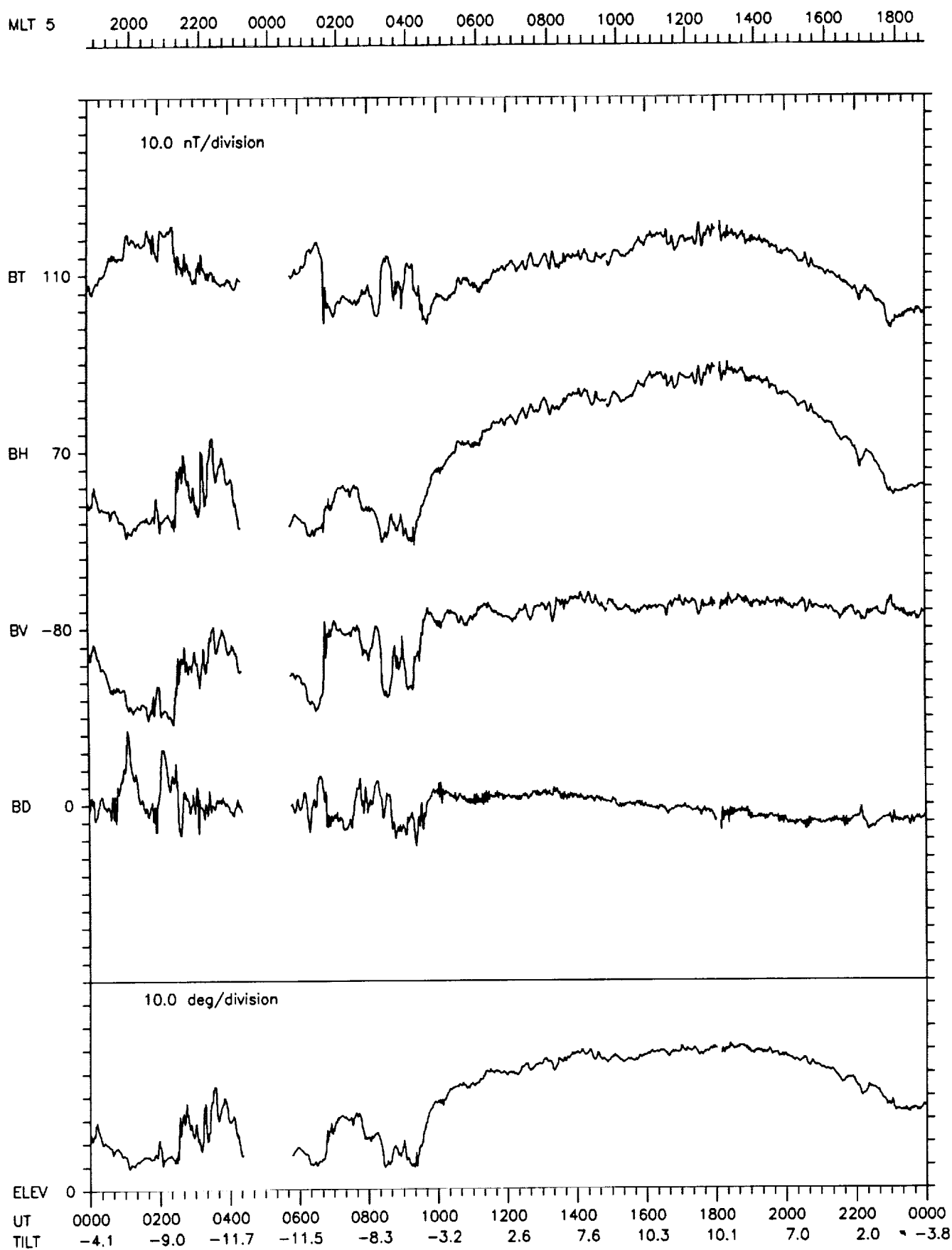
MLT 5



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 78 MAR 19

(GEOLON, MAGLAT) = ( -75.2, 11.2)

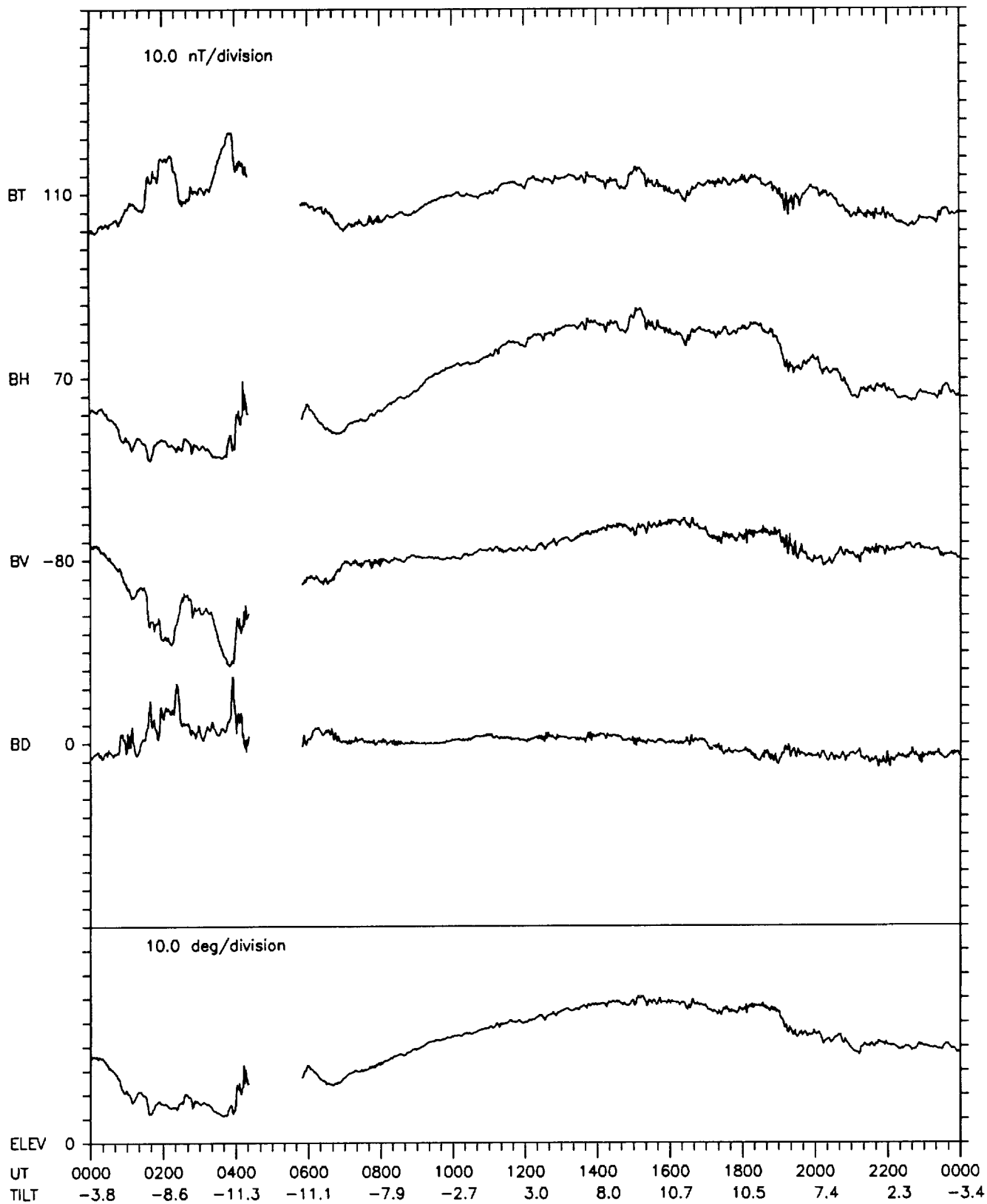


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 79 MAR 20

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

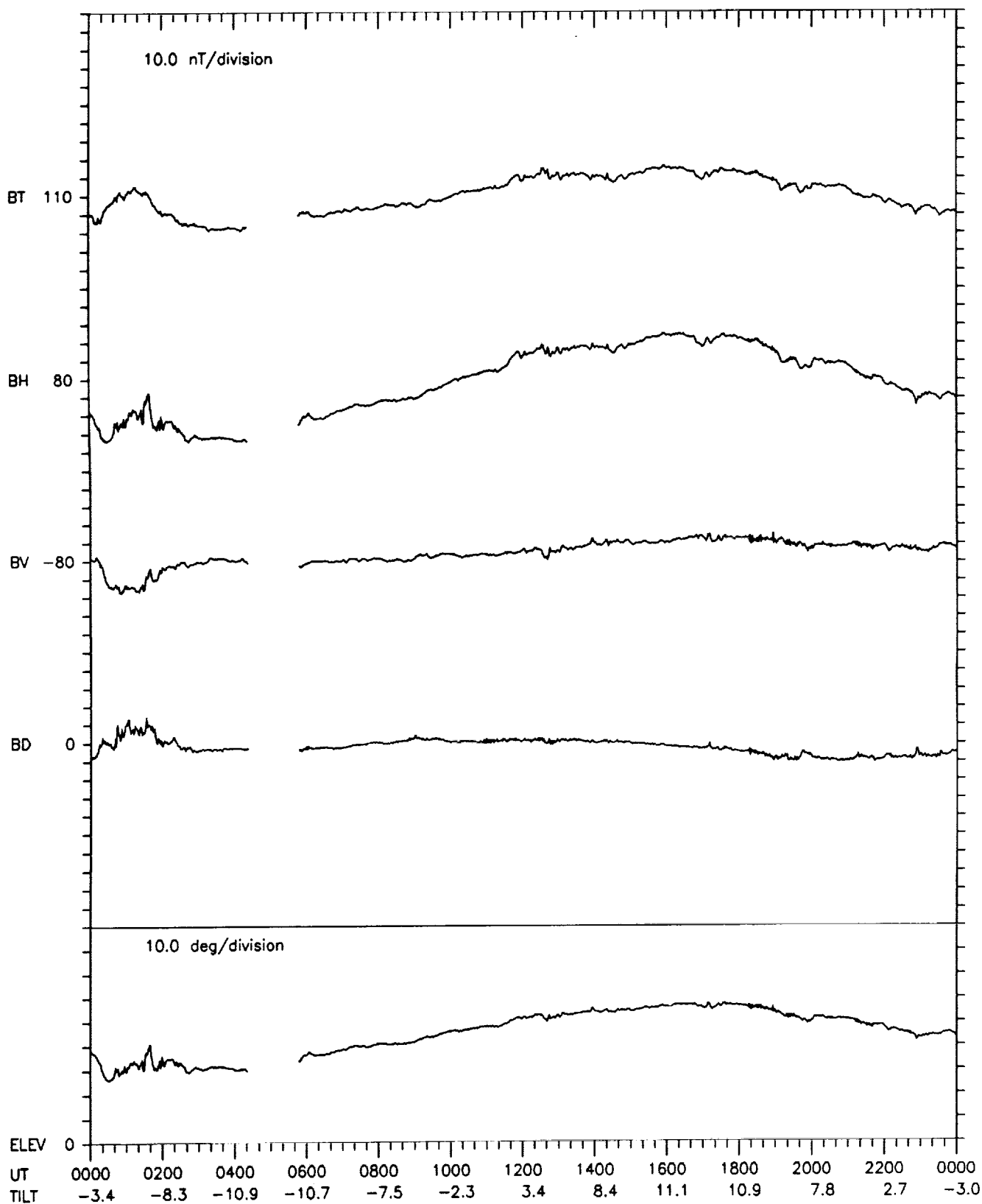
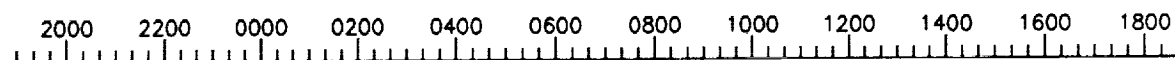


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 80 MAR 21

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5



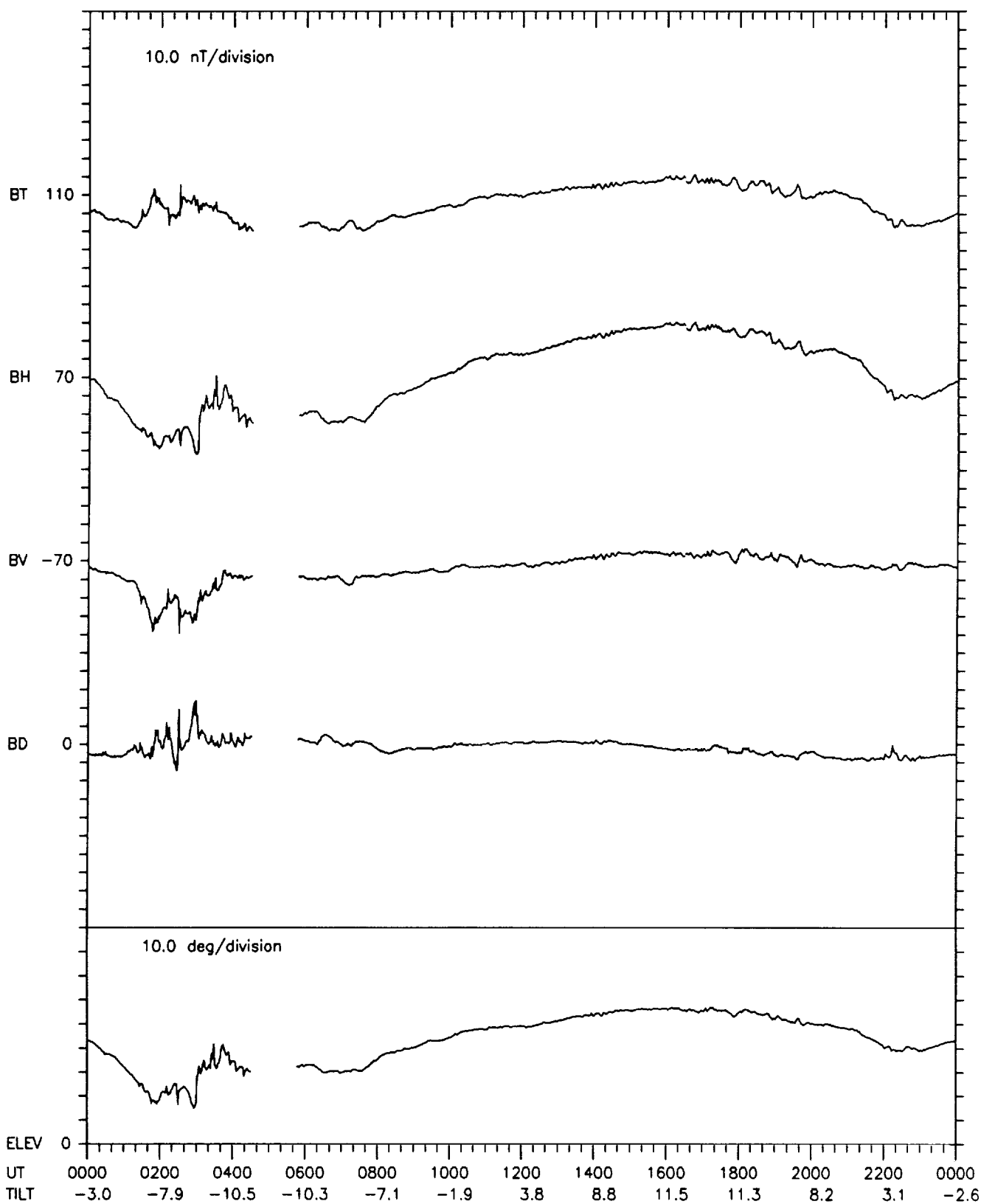


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 81 MAR 22

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

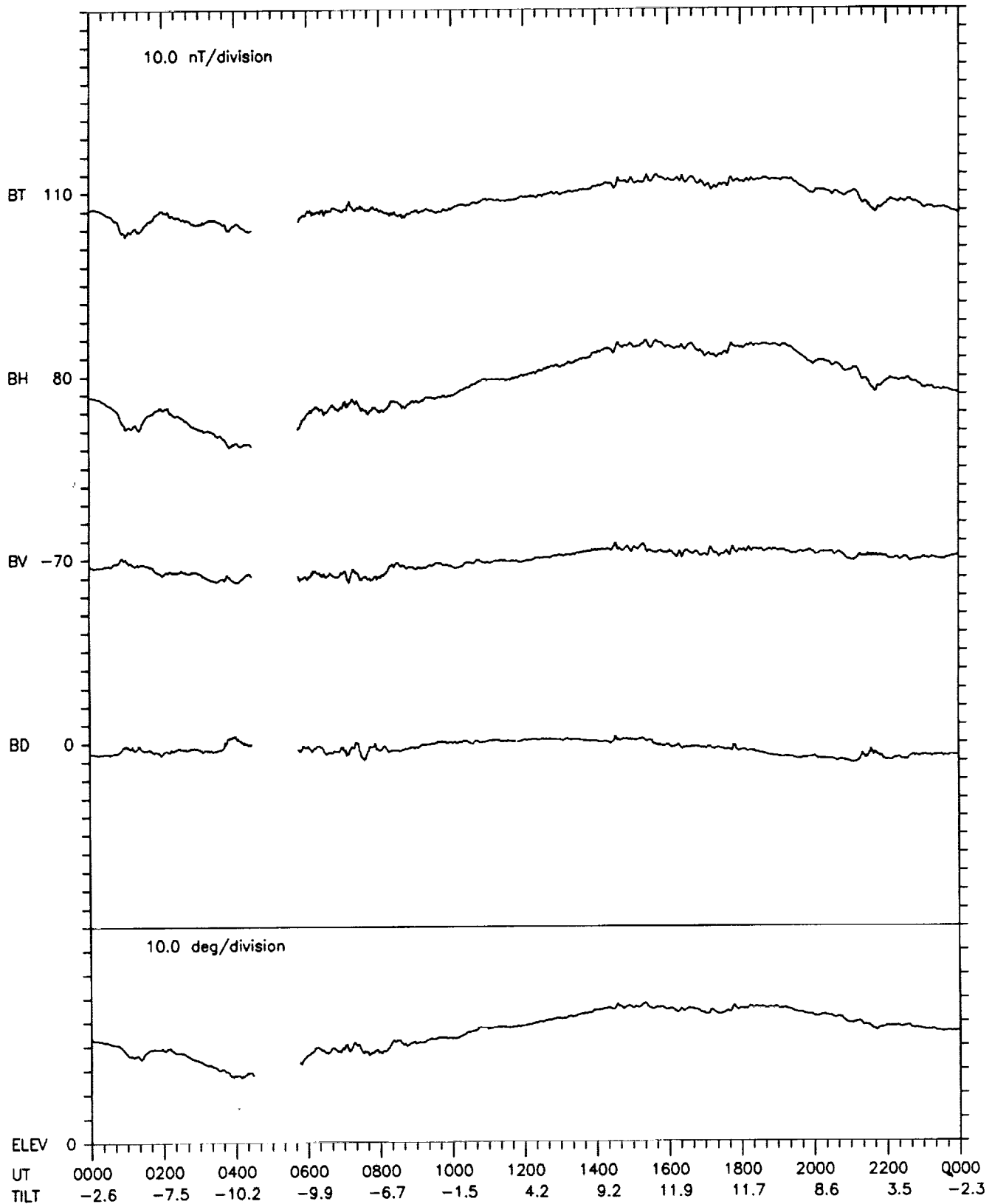
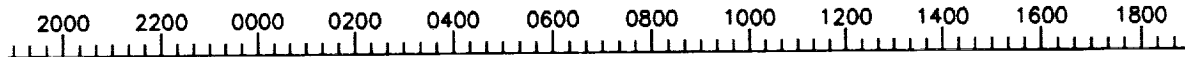


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 82 MAR 23

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5

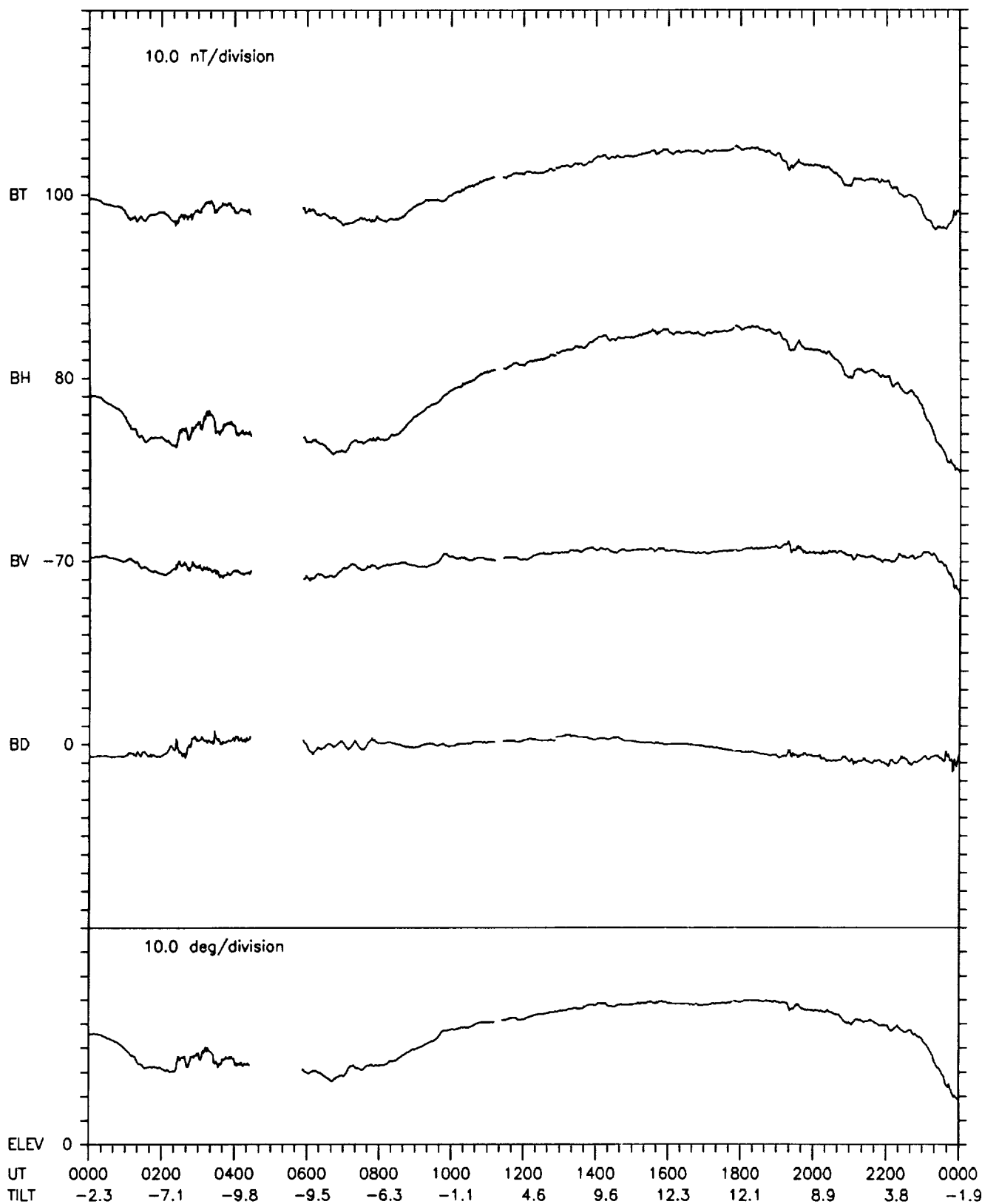


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 83 MAR 24

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

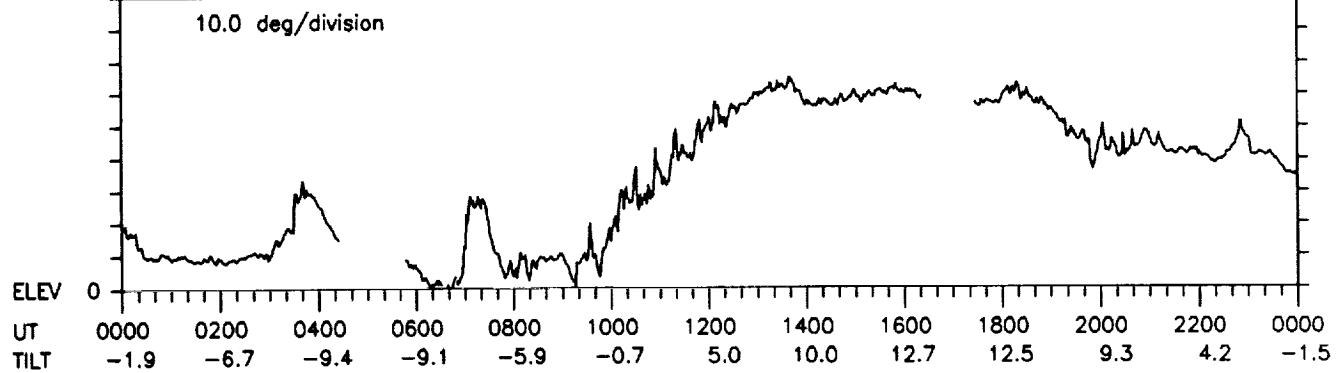
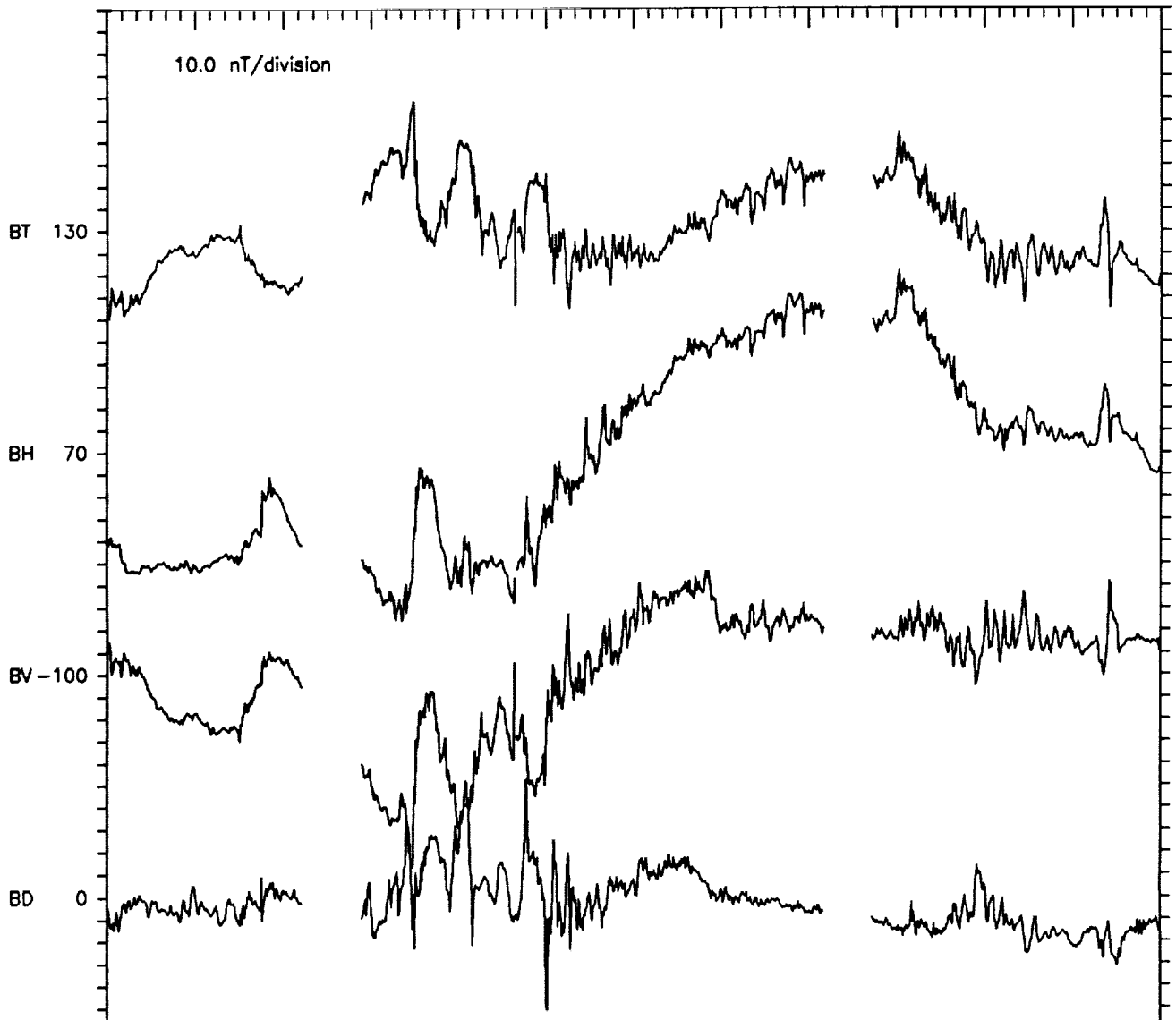


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 84 MAR 25

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

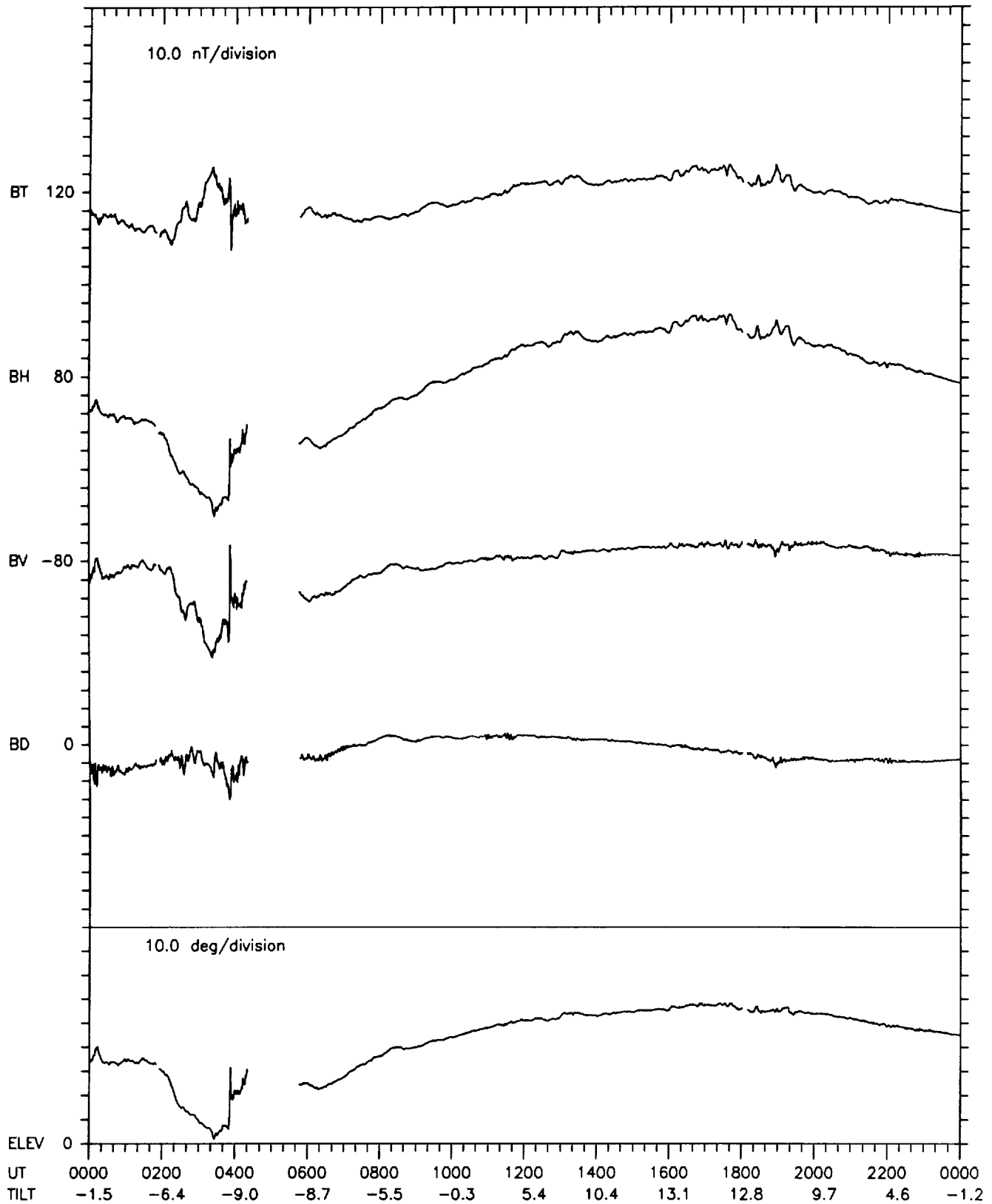


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 85 MAR 26

(GEOLON, MAGLAT) = ( -74.9, 11.2)

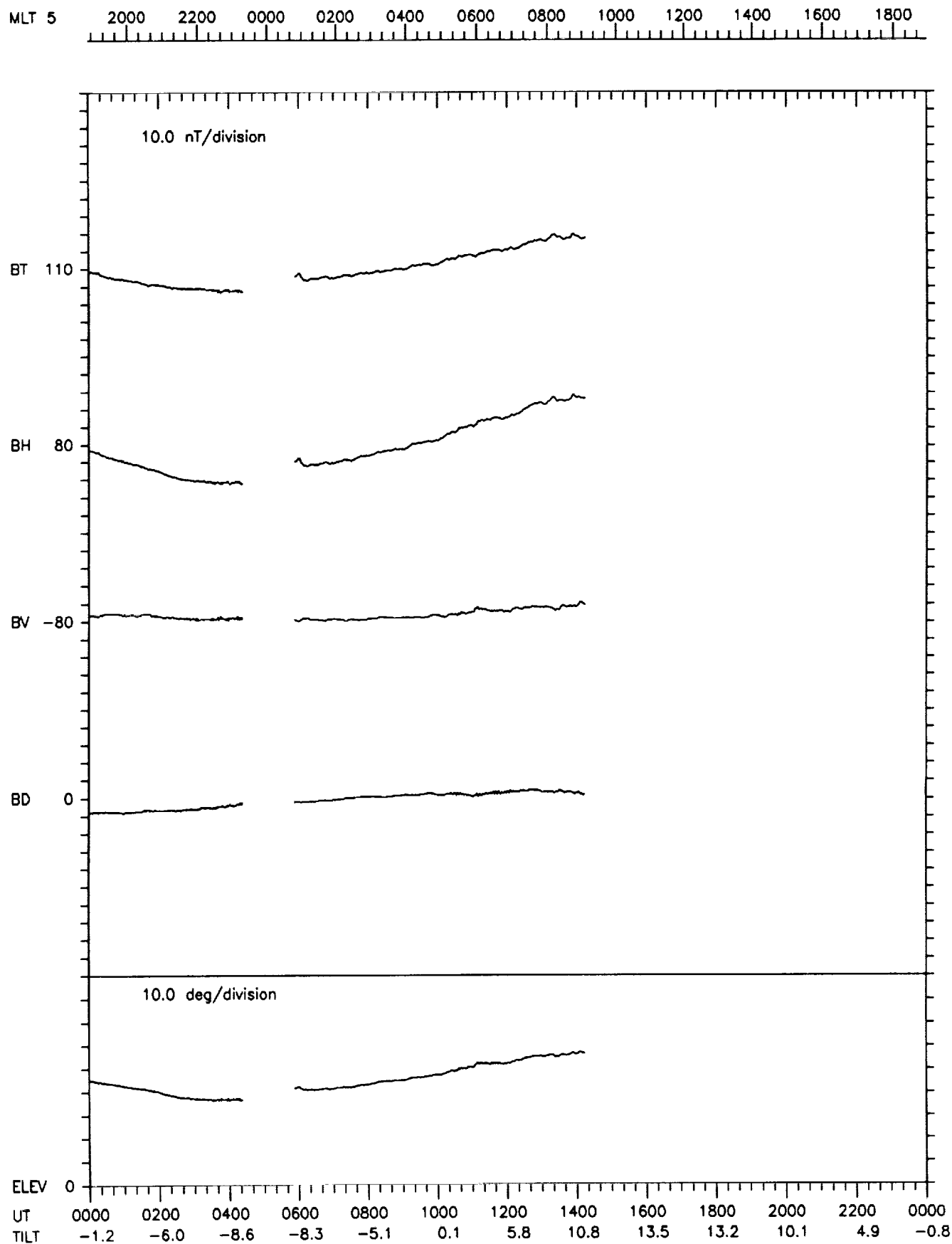
MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 86 MAR 27

(GEOLON, MAGLAT) = ( -74.9, 11.2)

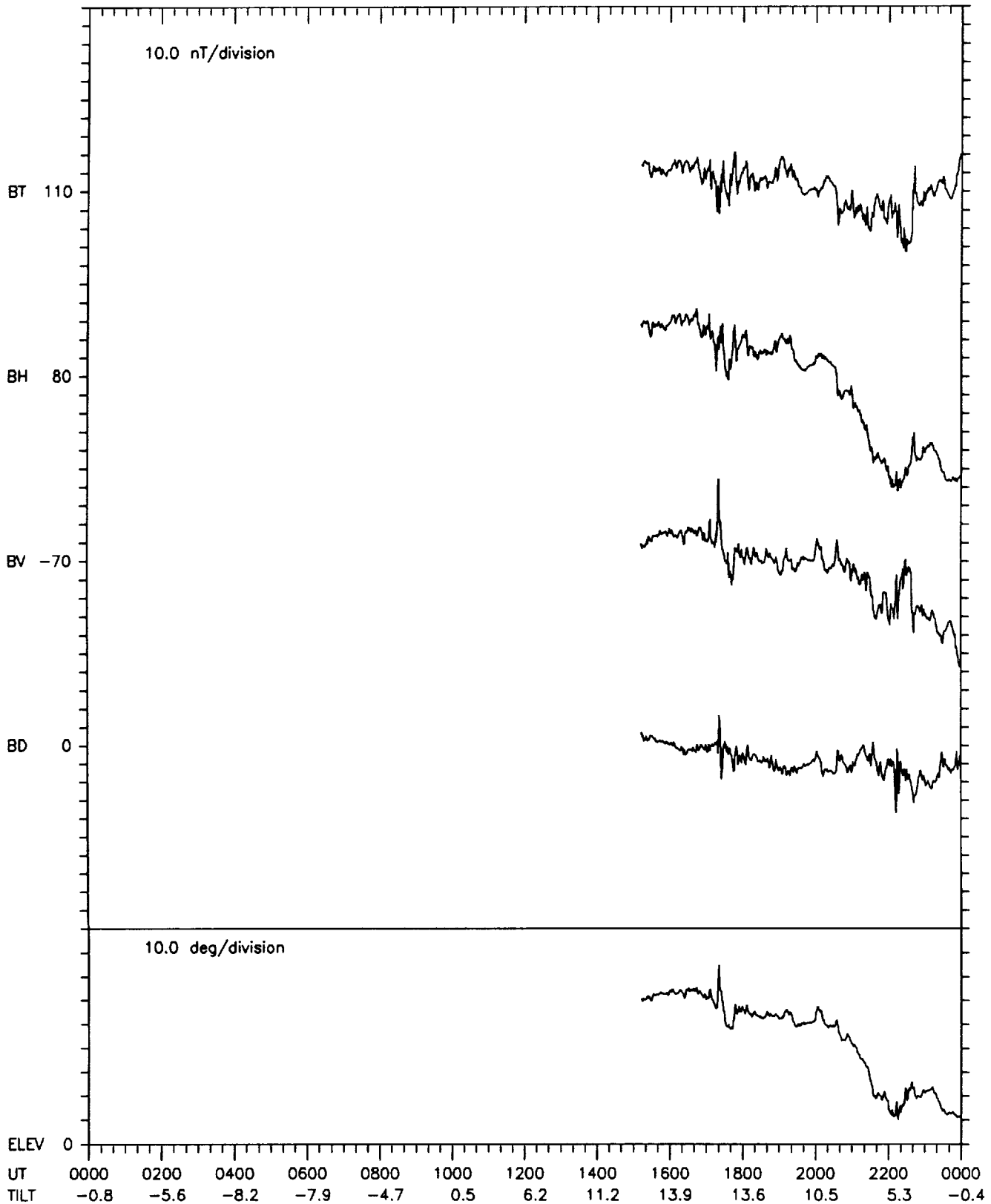


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 87 MAR 28

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

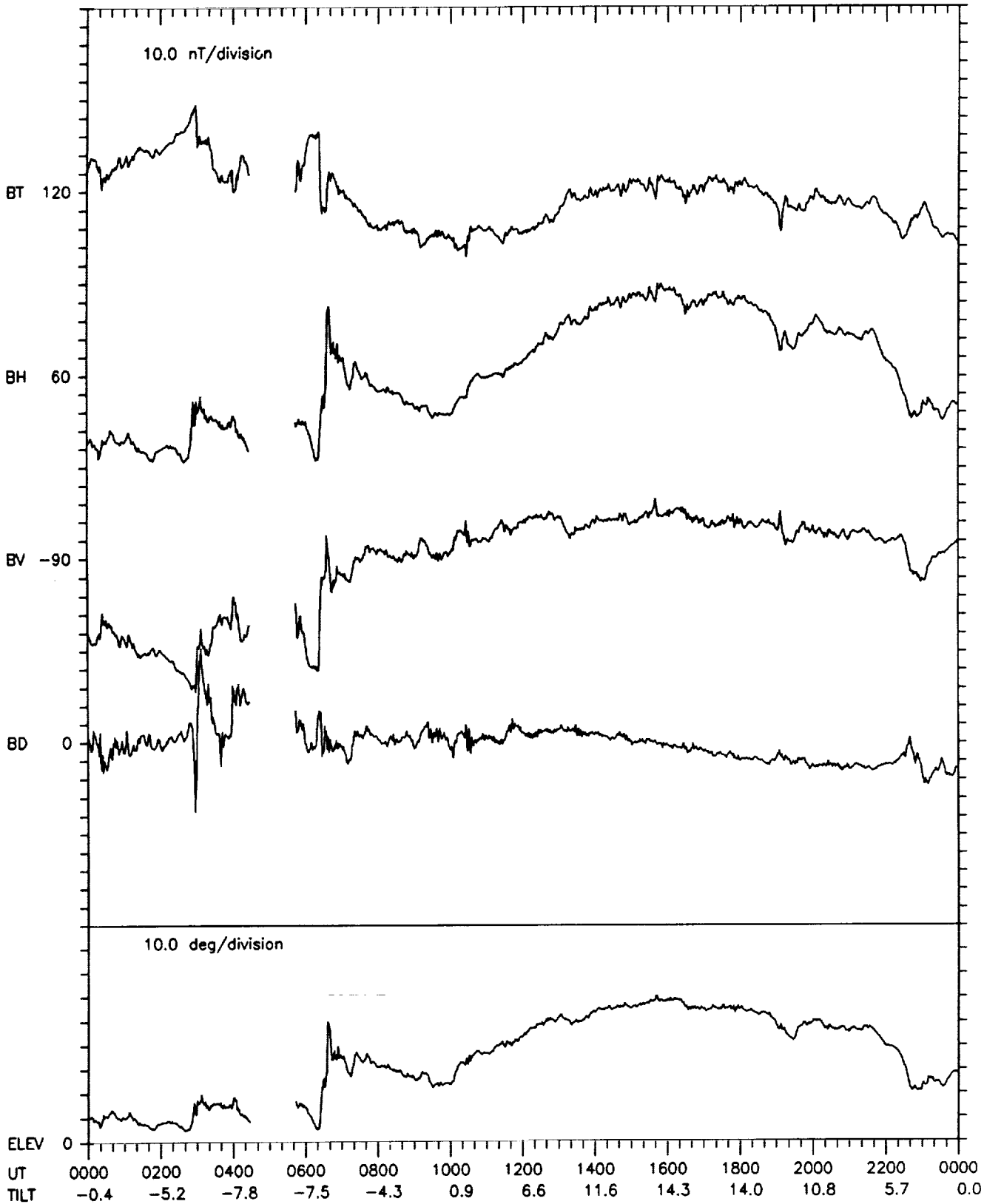


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 88 MAR 29

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

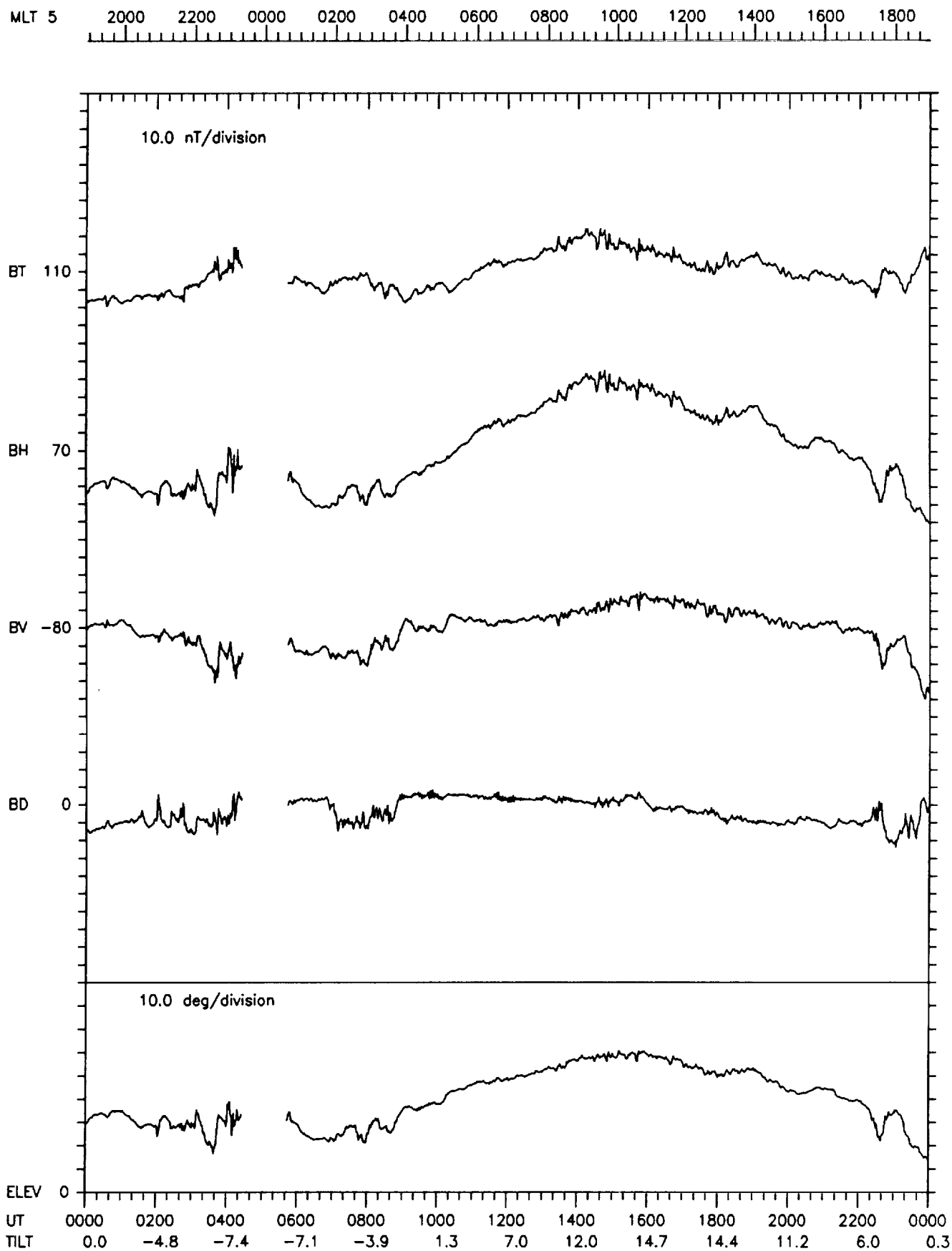




# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 89 MAR 30

(GEOLON, MAGLAT) = ( -74.8, 11.2)

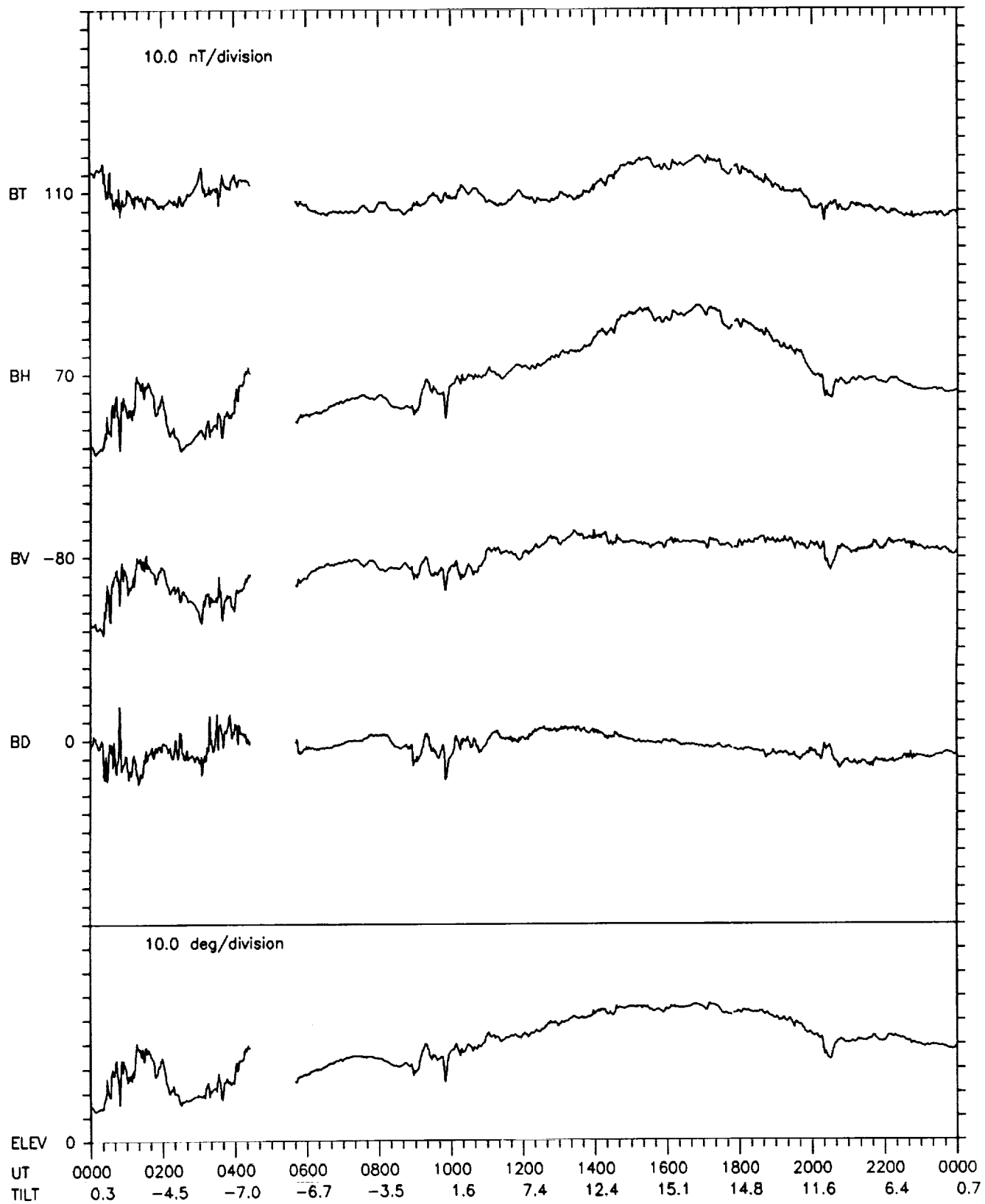


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 90 MAR 31

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

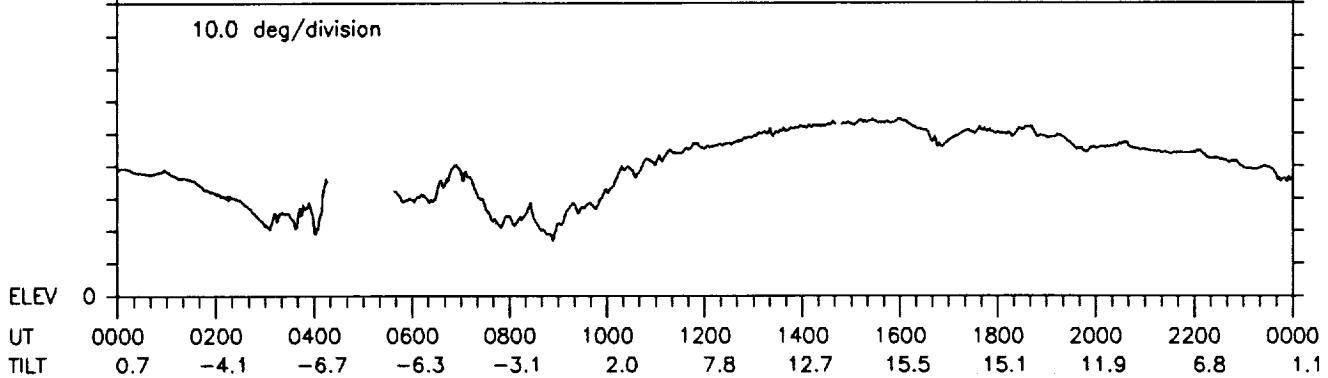
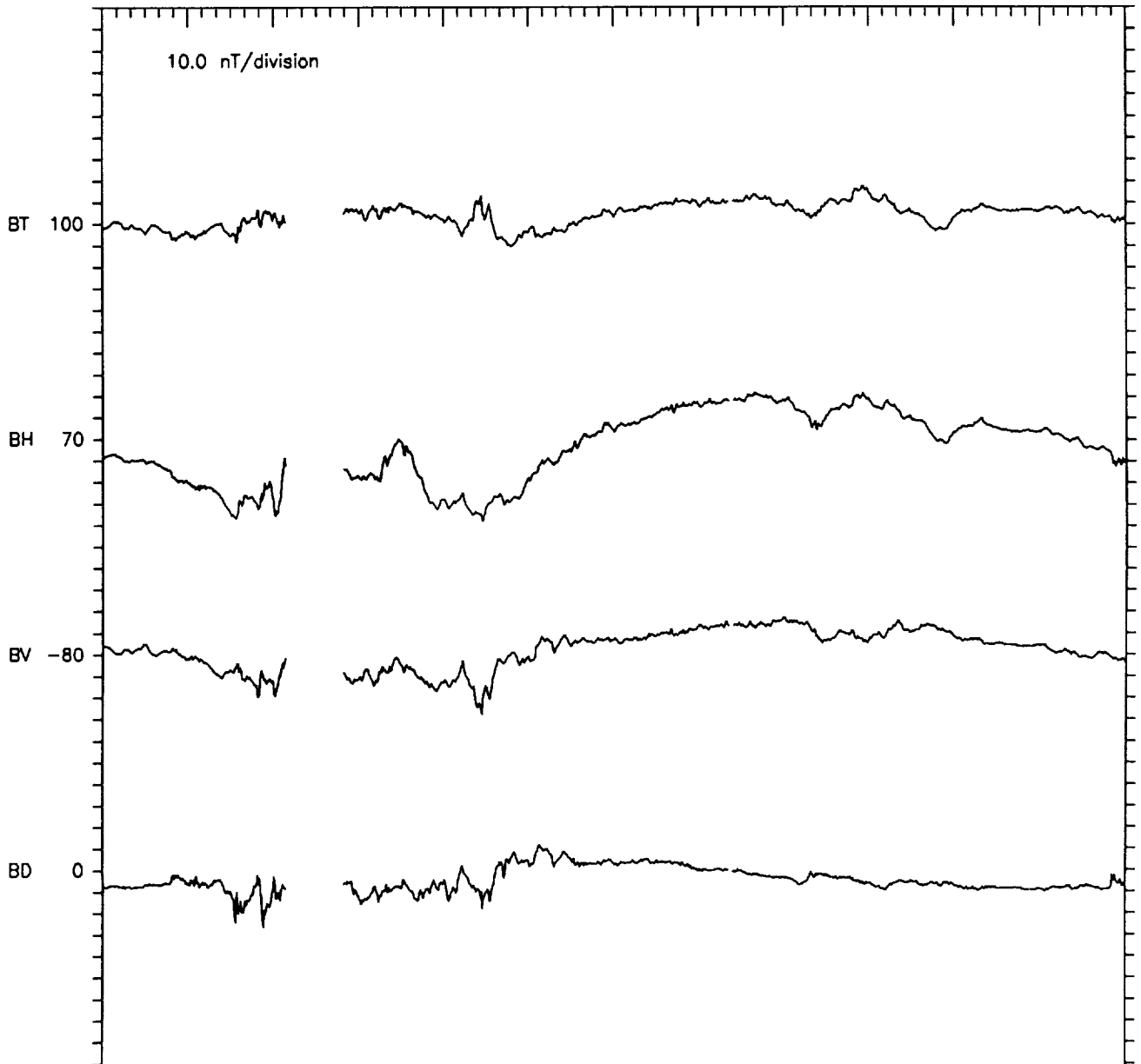
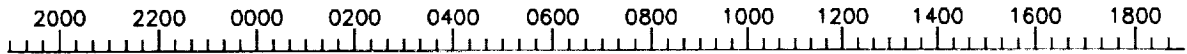


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 91 APR 1

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5

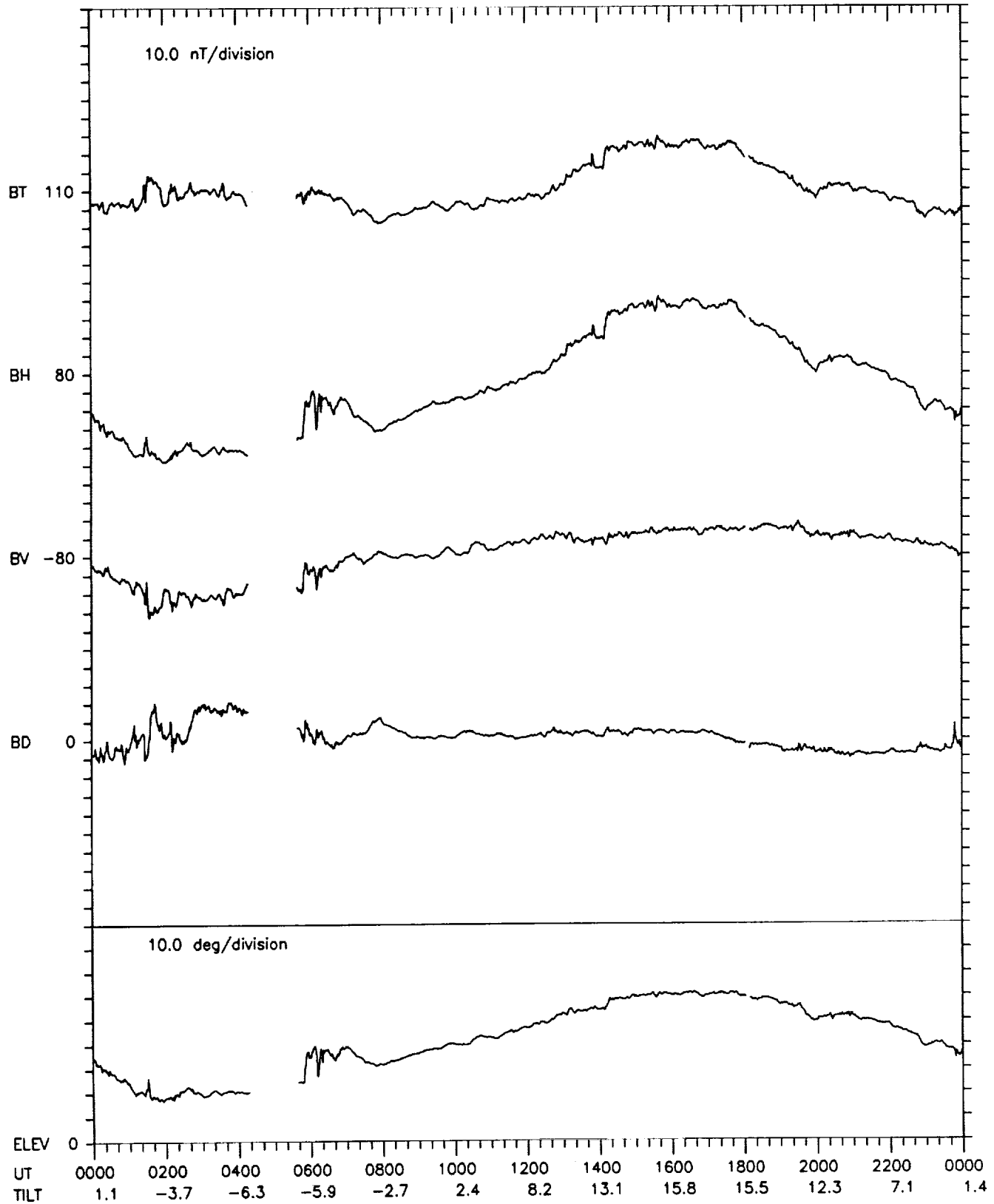


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 92 APR 2

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

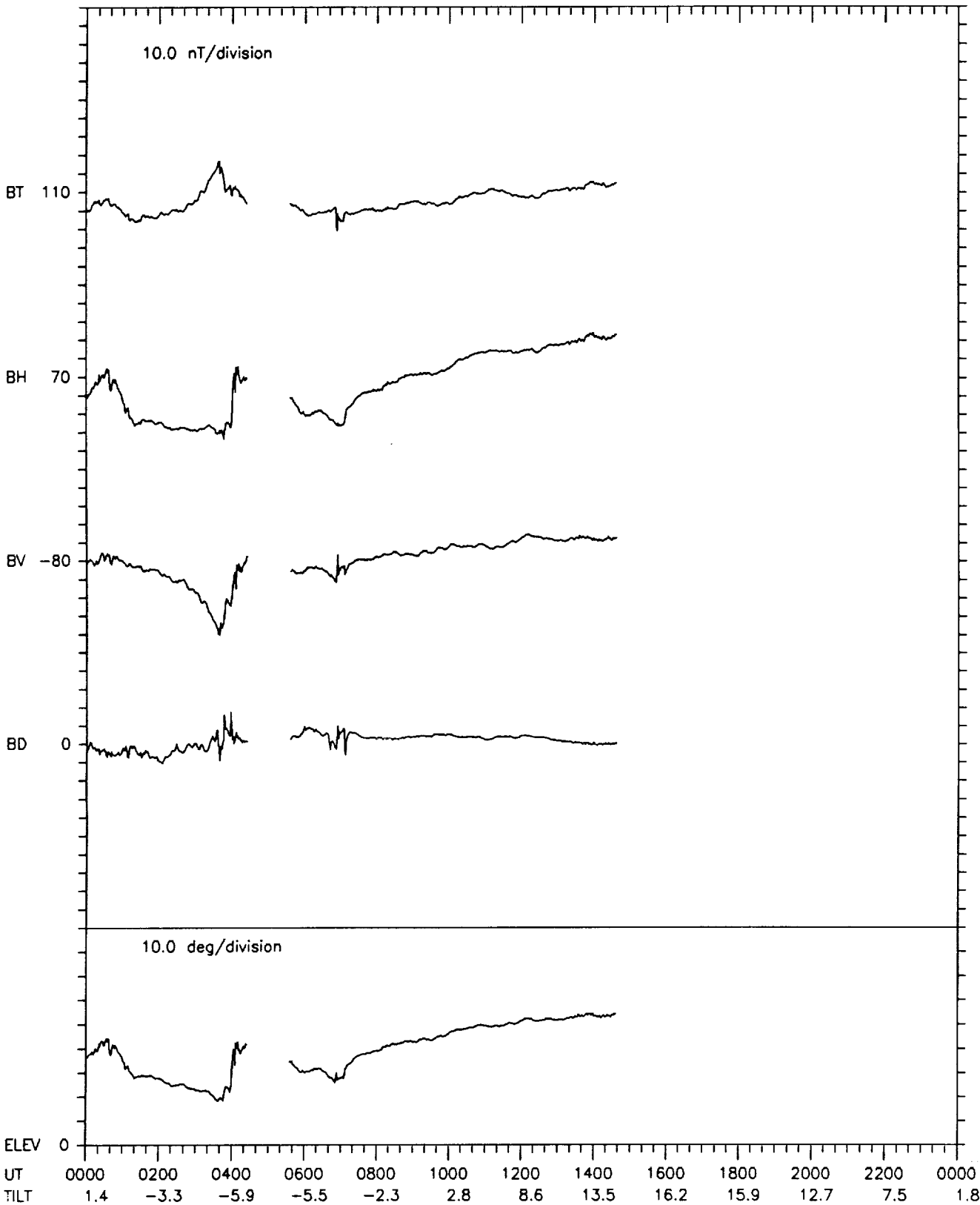
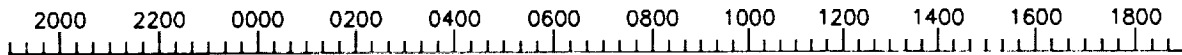


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 93 APR 3

(GEOLON, MAGLAT) = ( -74.8, 11.2)

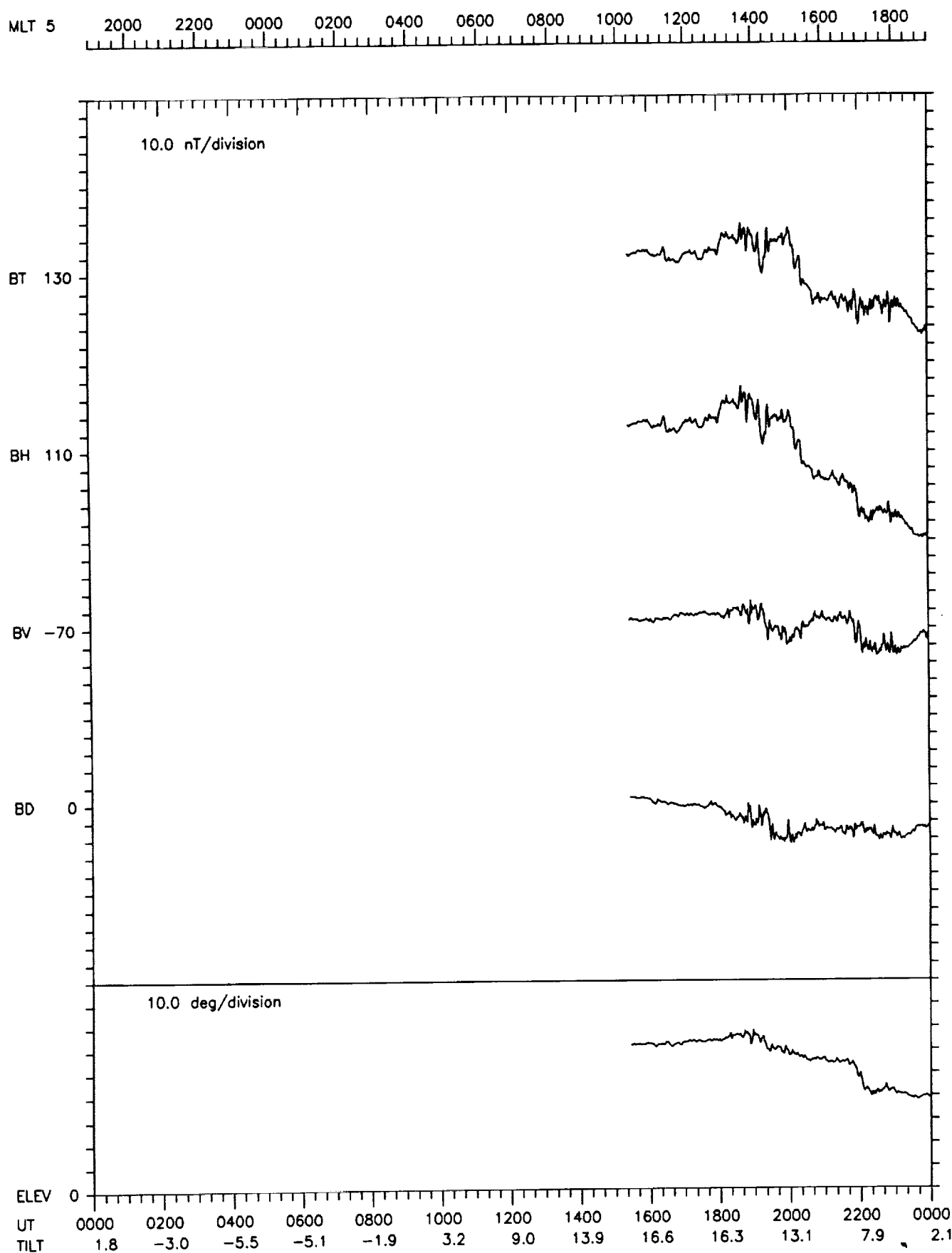
MLT 5



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 94 APR 4

(GEOLON, MAGLAT) = ( -74.8, 11.2)

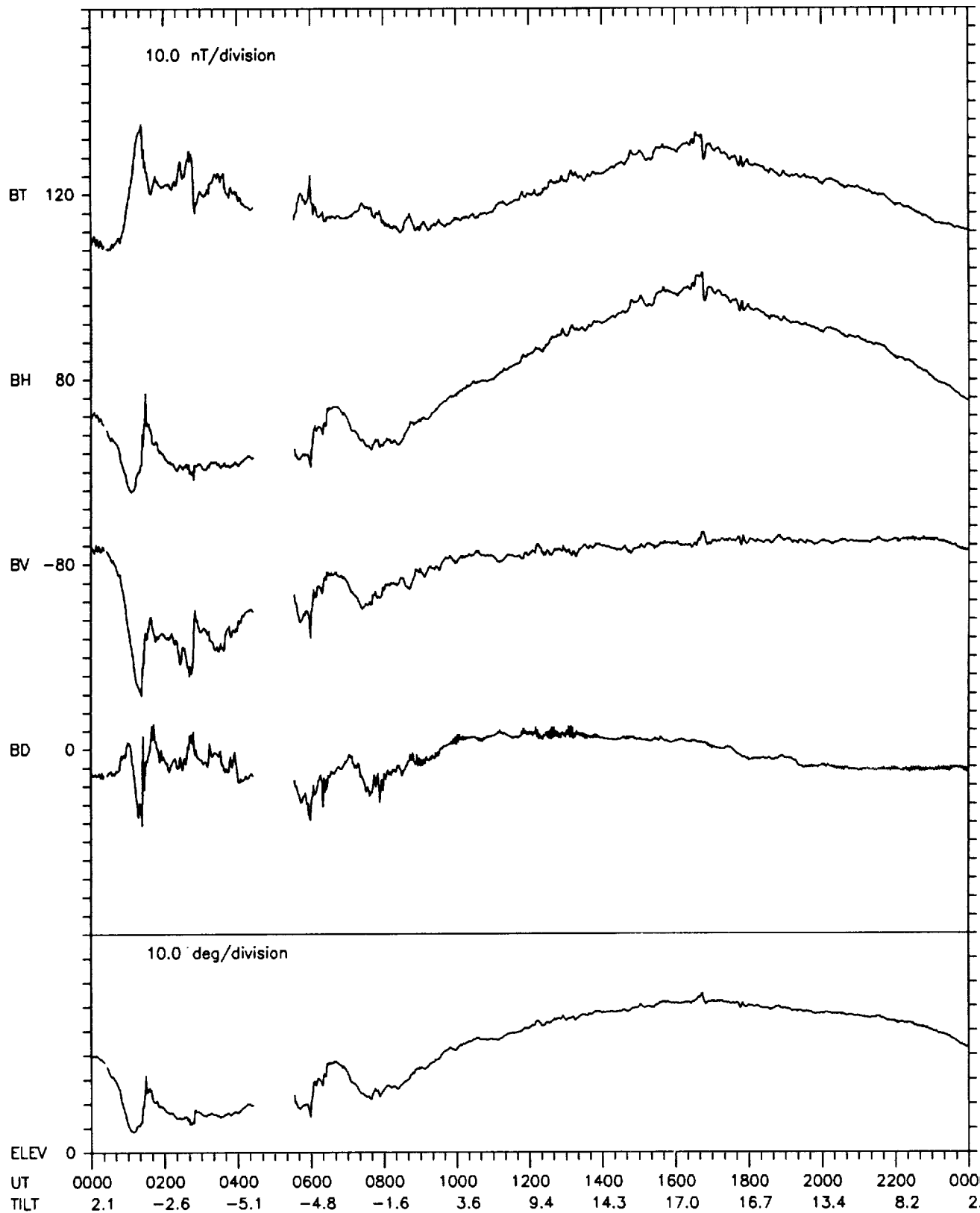


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 95 APR 5

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

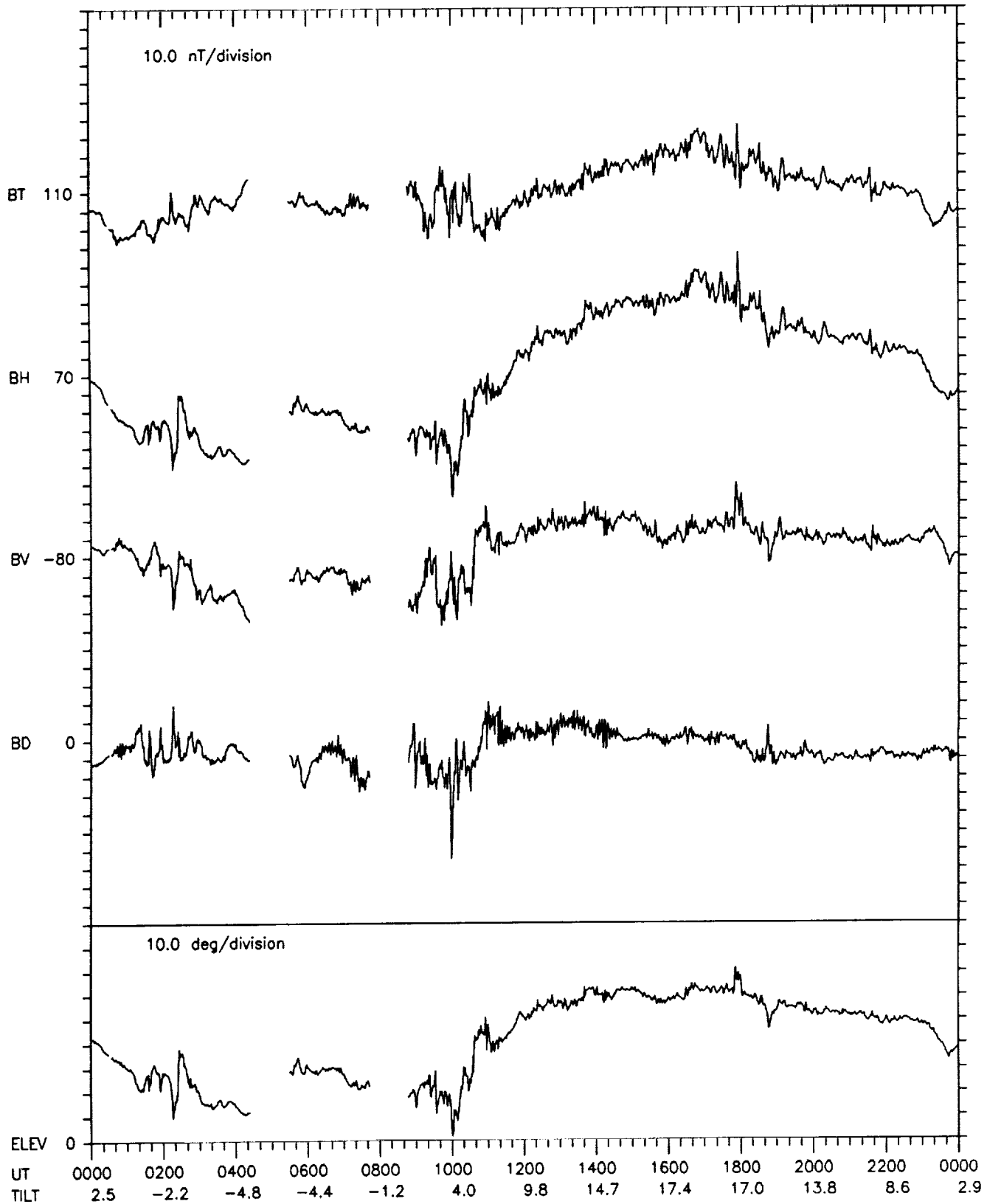


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 96 APR 6

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



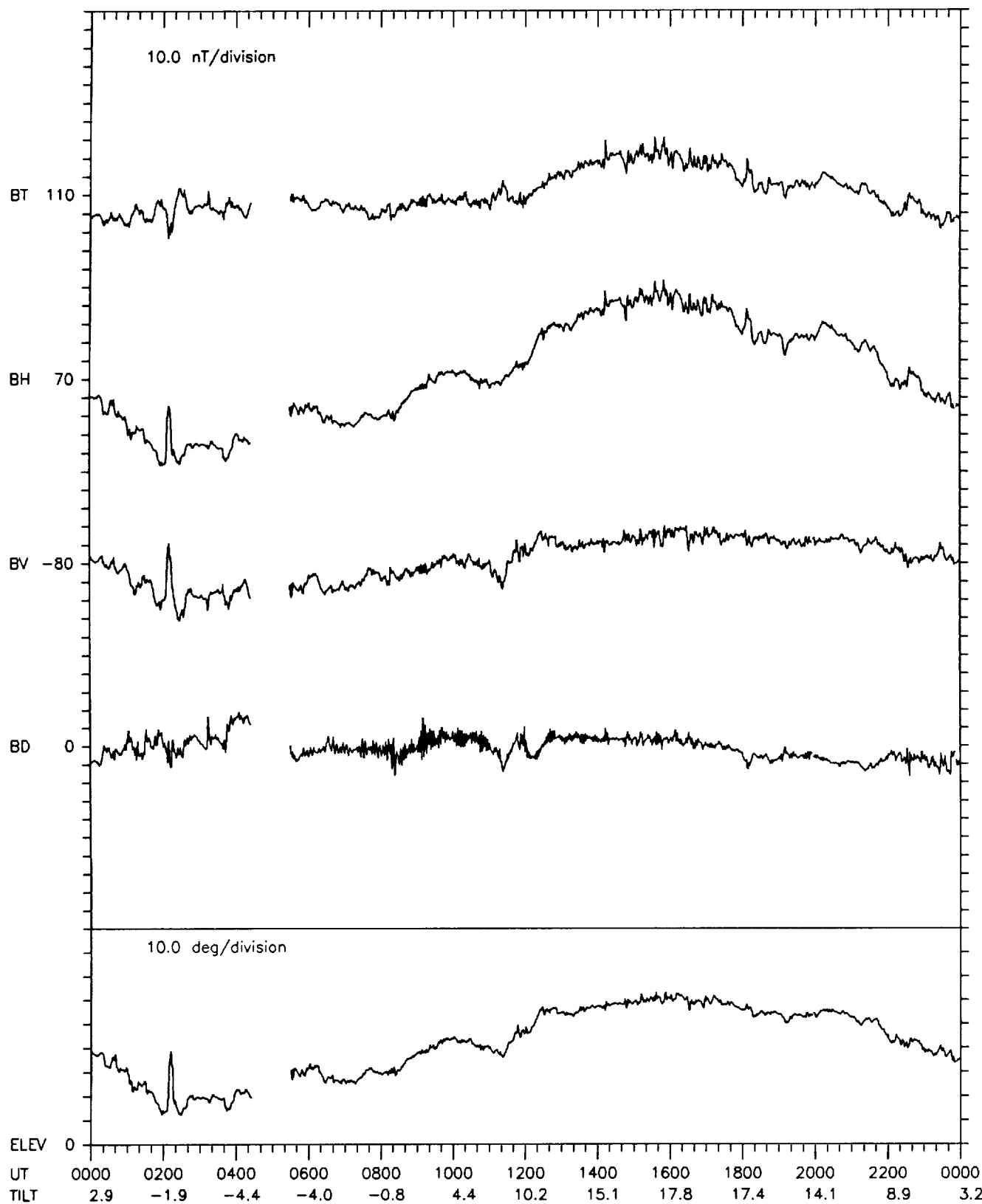
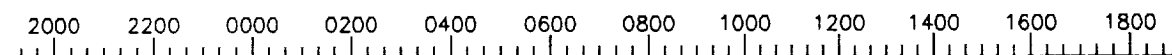


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 97 APR 7

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

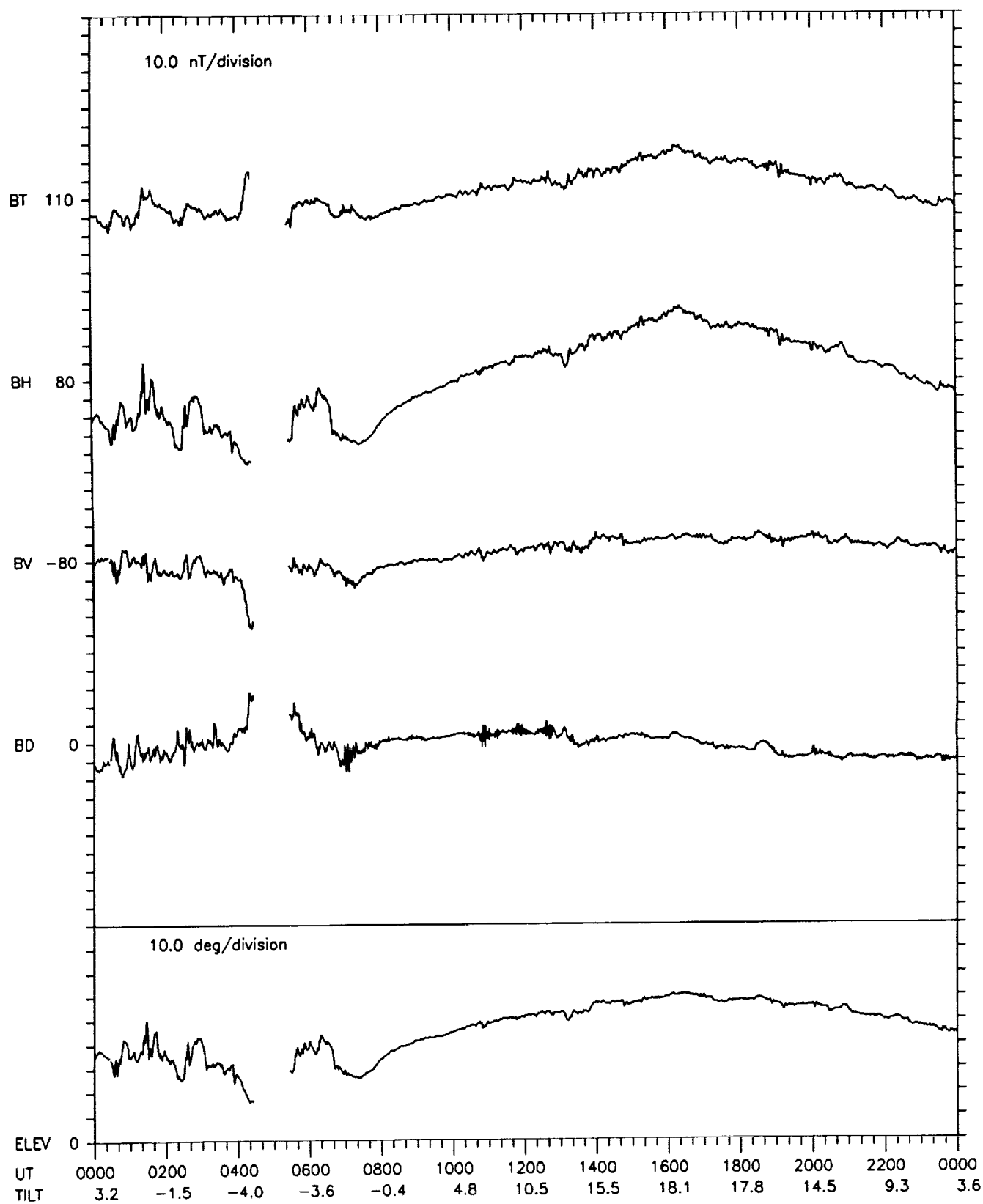


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 98 APR 8

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

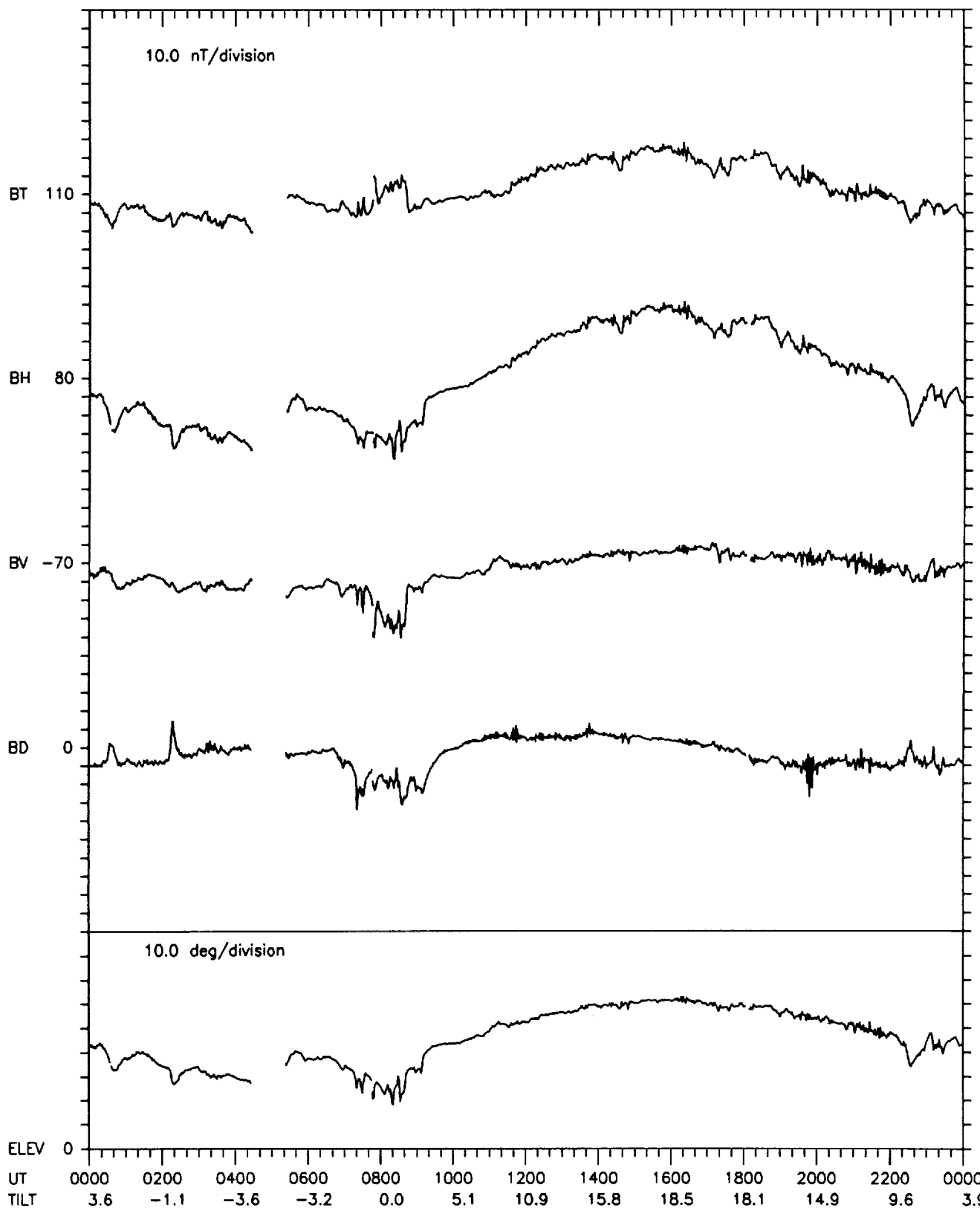
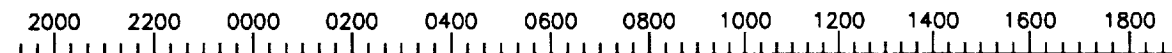


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY 99 APR 9

(GEOLON, MAGLAT) = ( -74.7, 11.2)

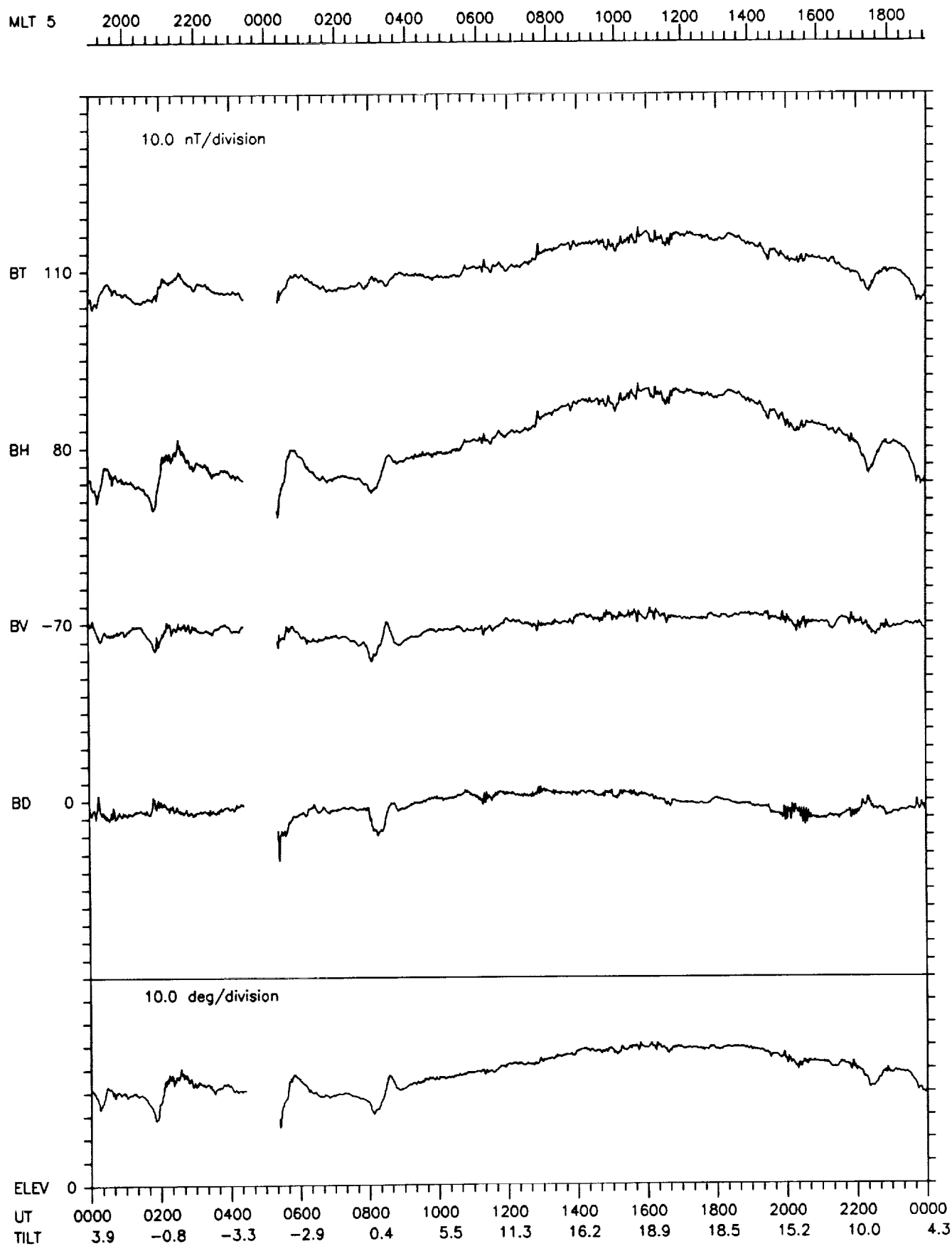
MLT 5



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY100 APR 10

(GEOLON, MAGLAT) = ( -74.6, 11.2)

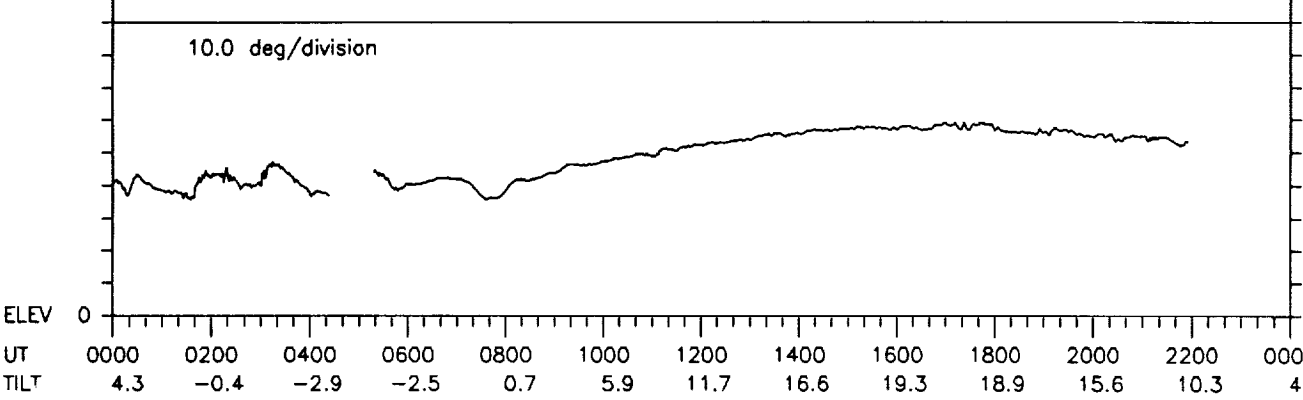
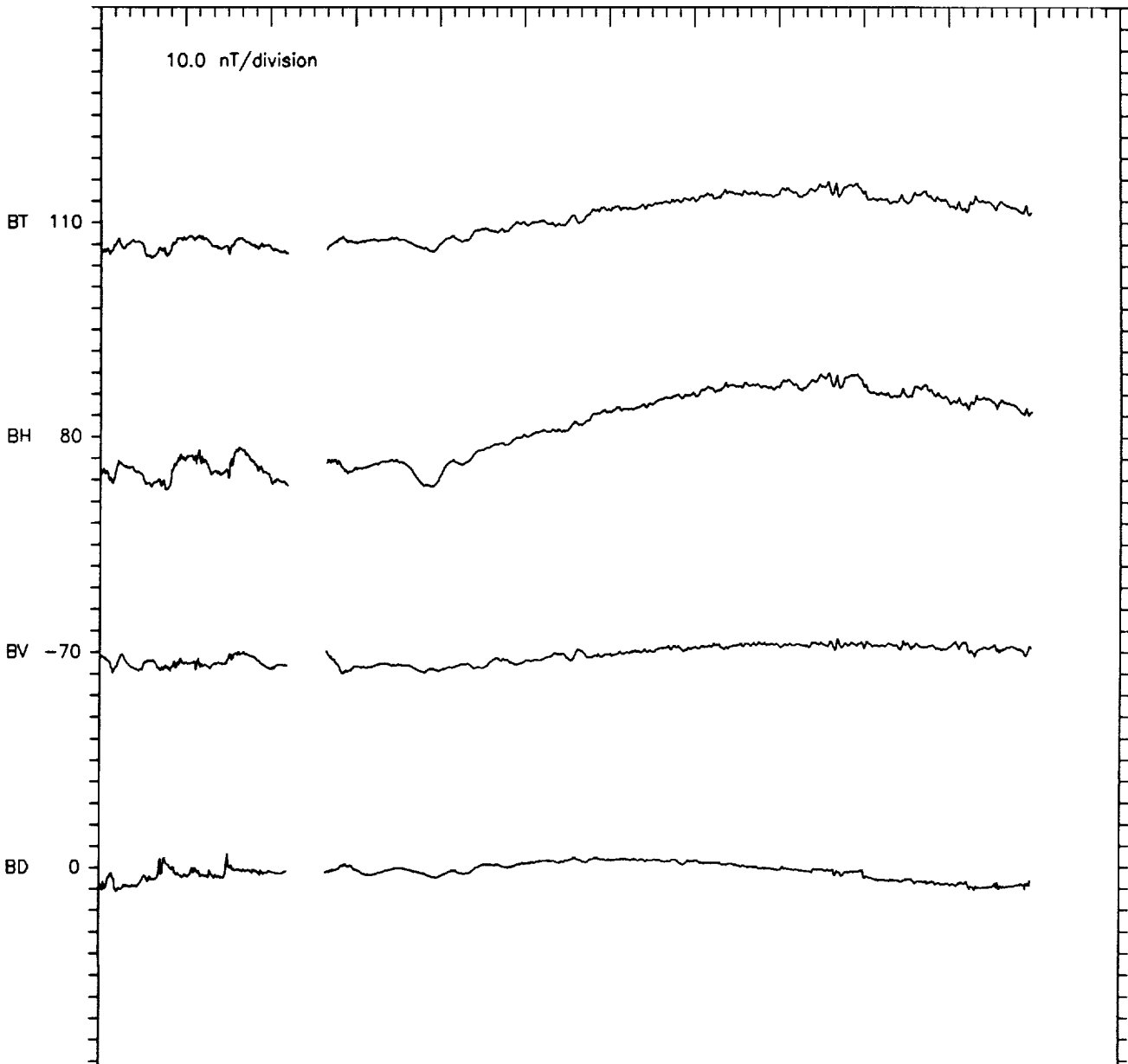


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY101 APR 11

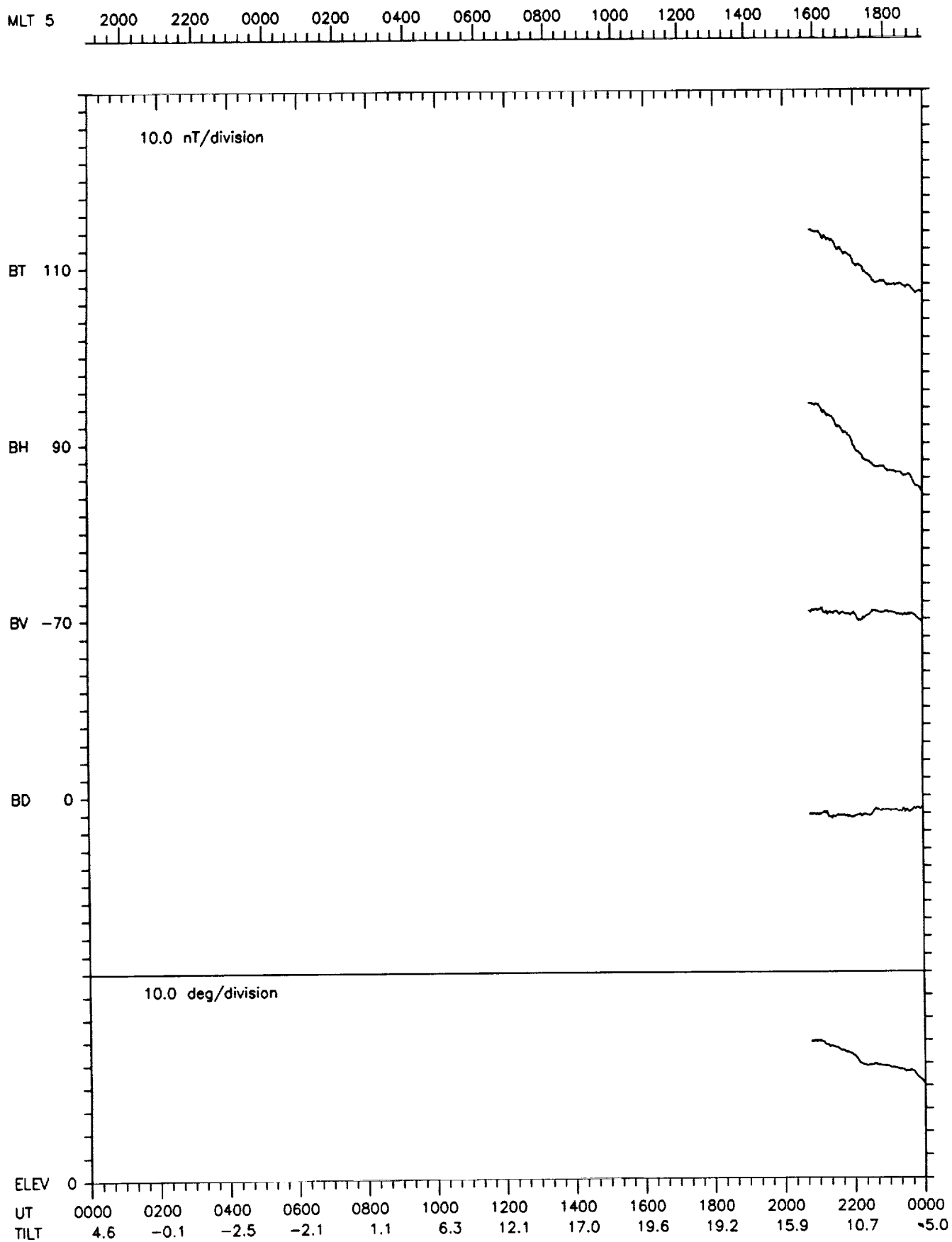
(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY102 APR 12  
(GEOLON, MAGLAT) = ( -74.6, 11.2)

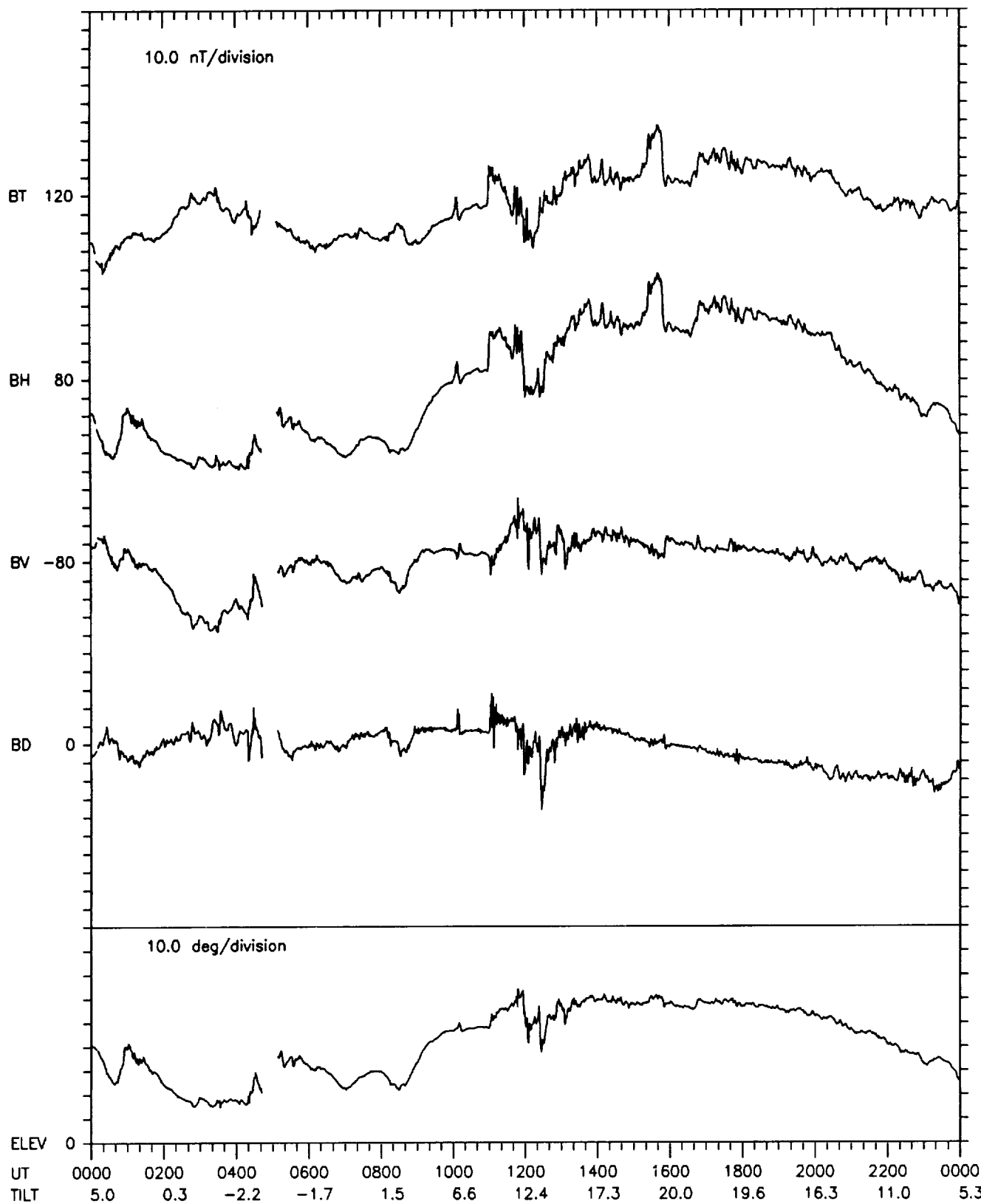
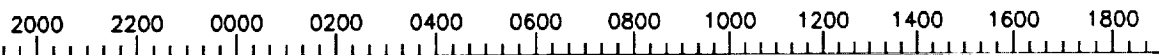


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY103 APR 13

(GEOLON, MAGLAT) = ( -74.6, 11.2)

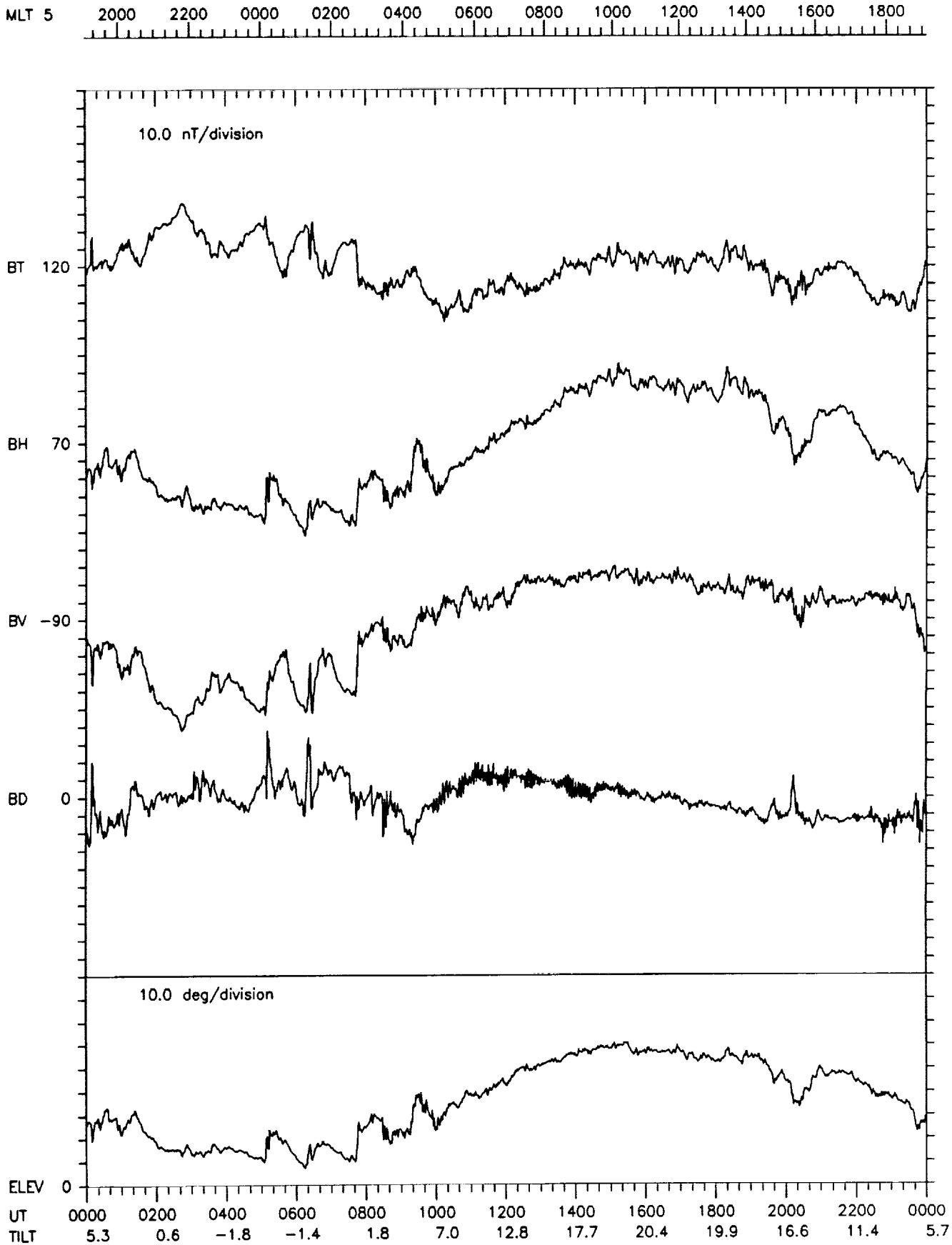
MLT 5



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY104 APR 14

(GEOLON, MAGLAT) = ( -74.6, 11.2)



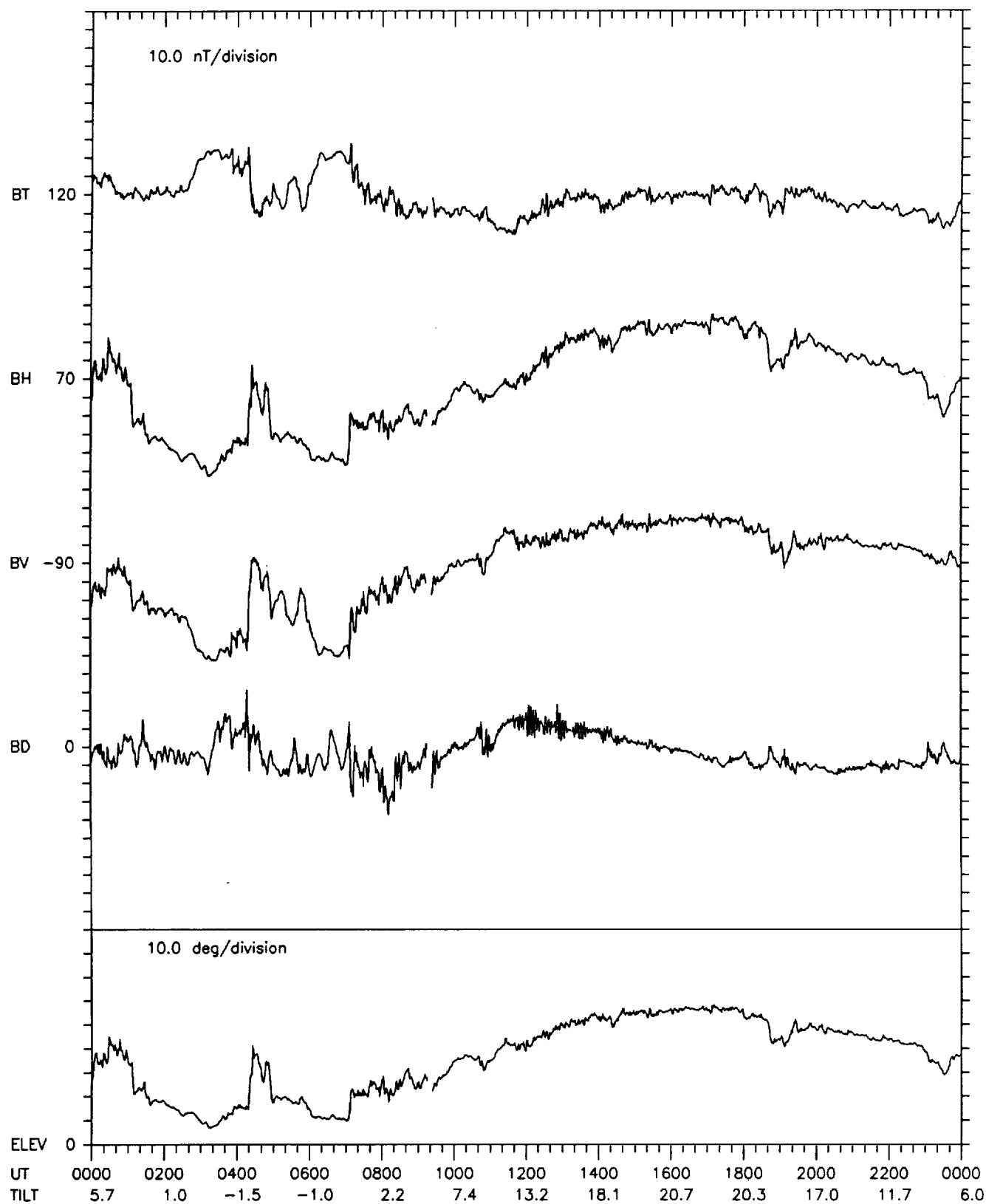


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY105 APR 15

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

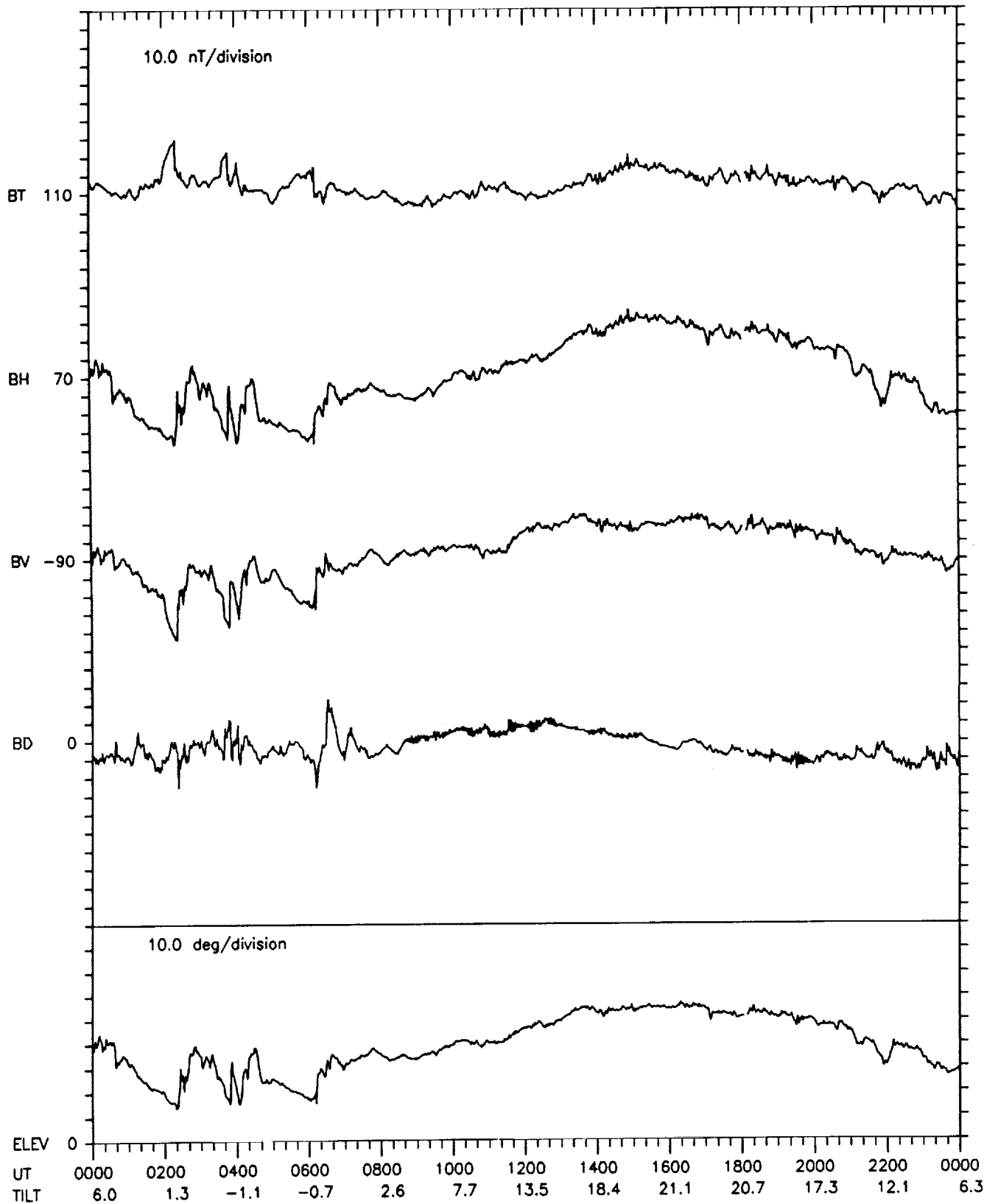
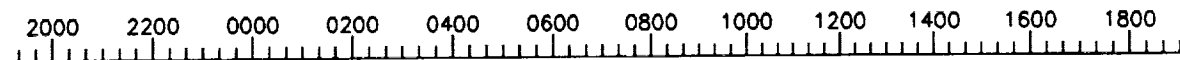


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY106 APR 16

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5

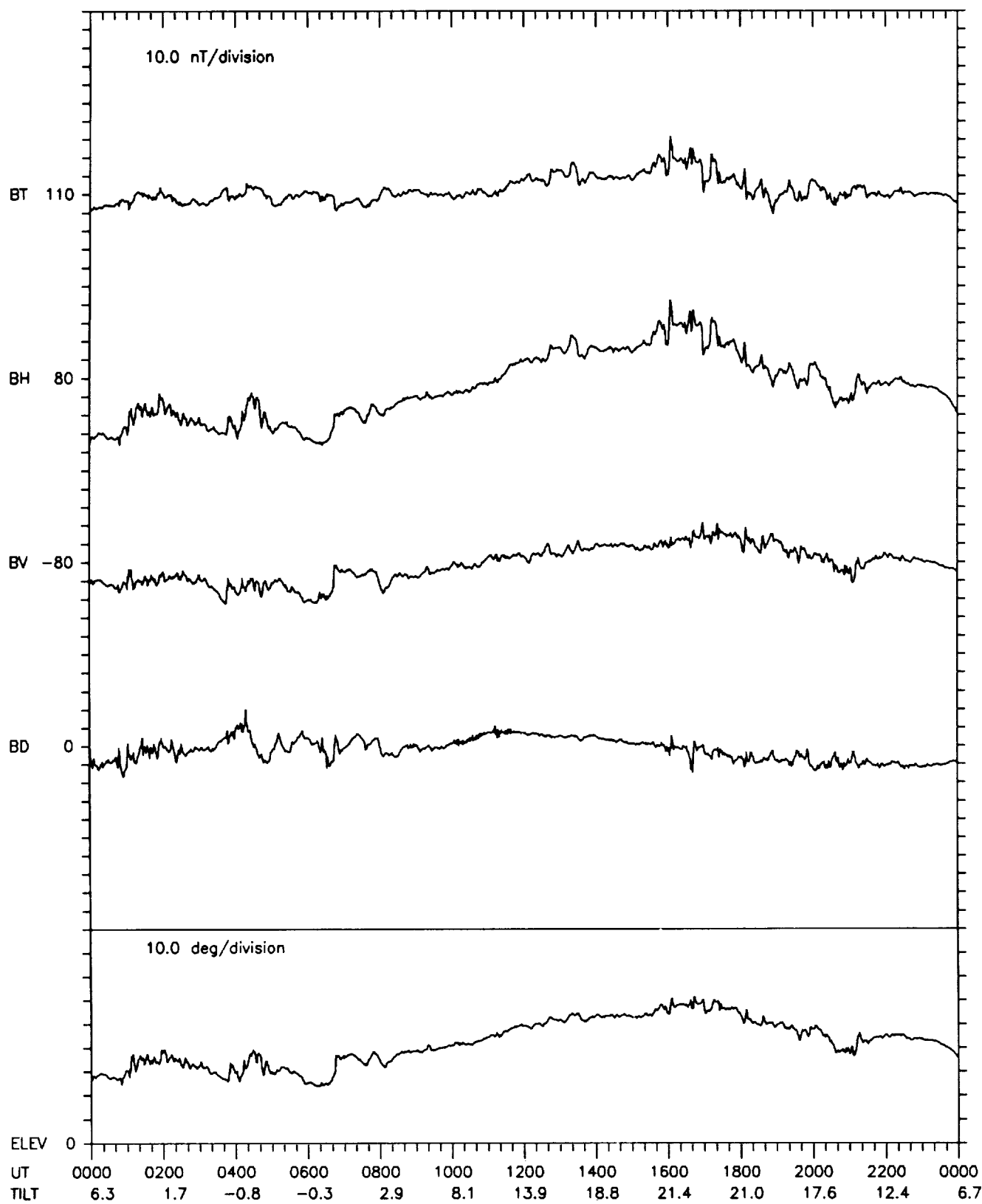


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY107 APR 17

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

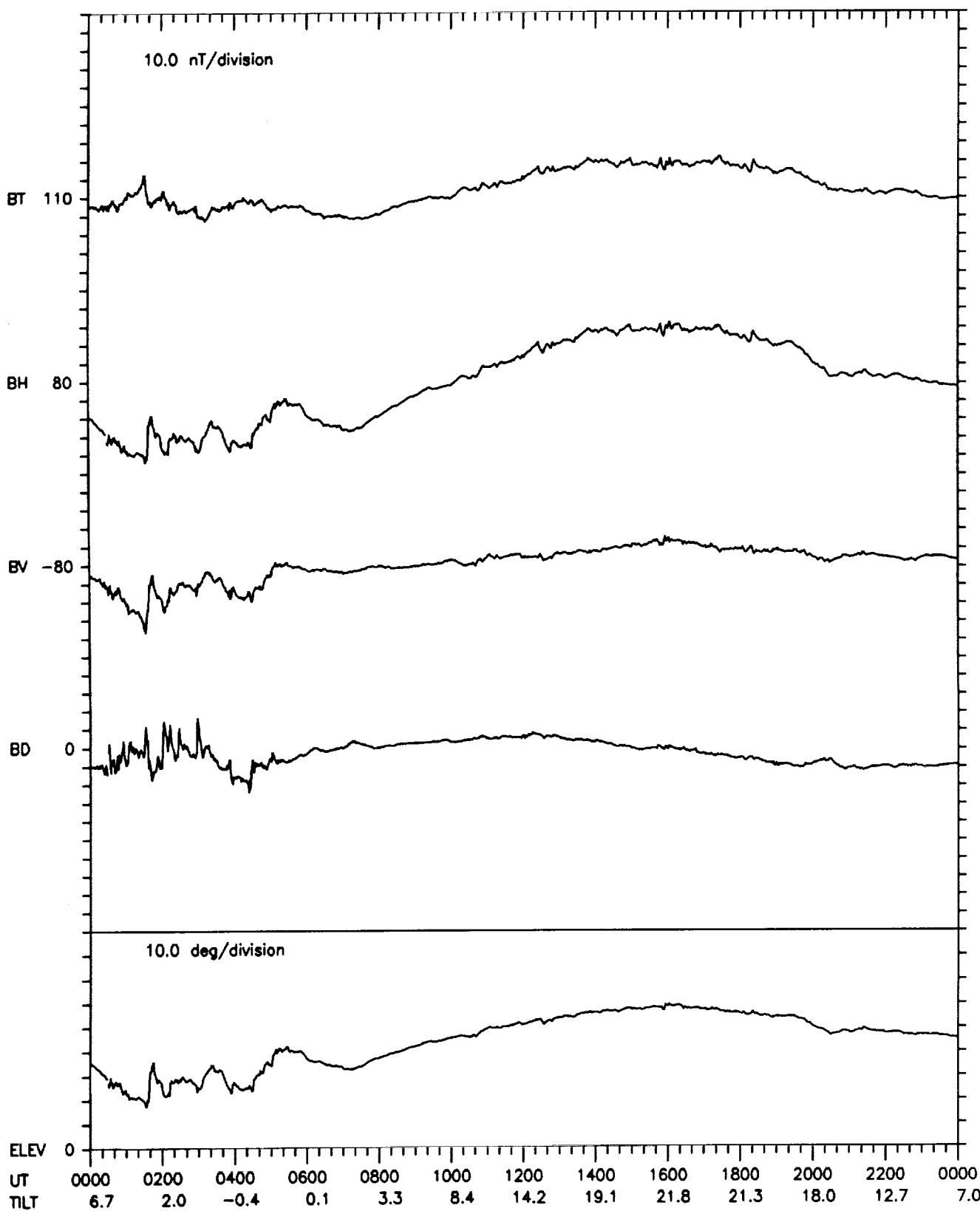


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY108 APR 18

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

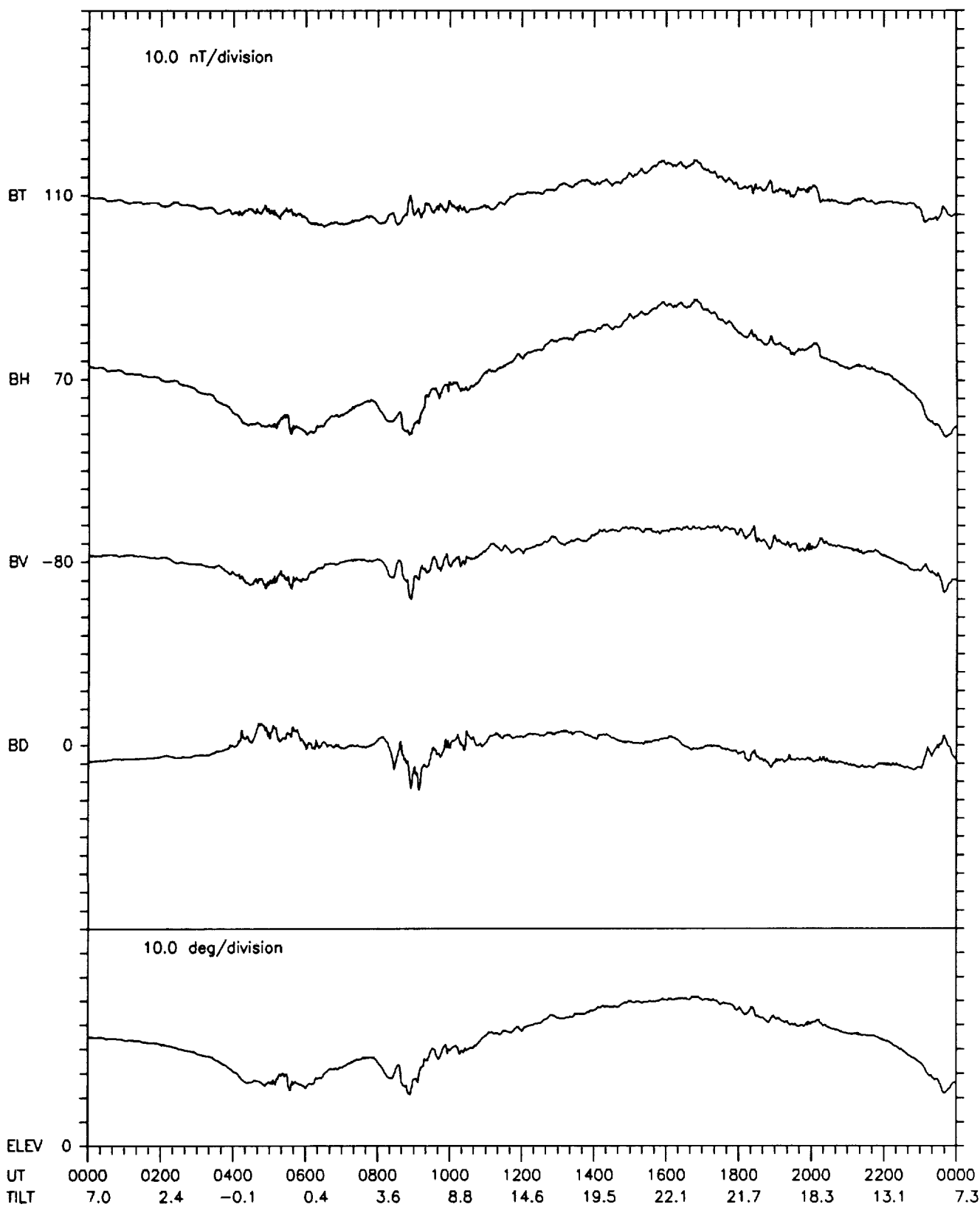


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY109 APR 19

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

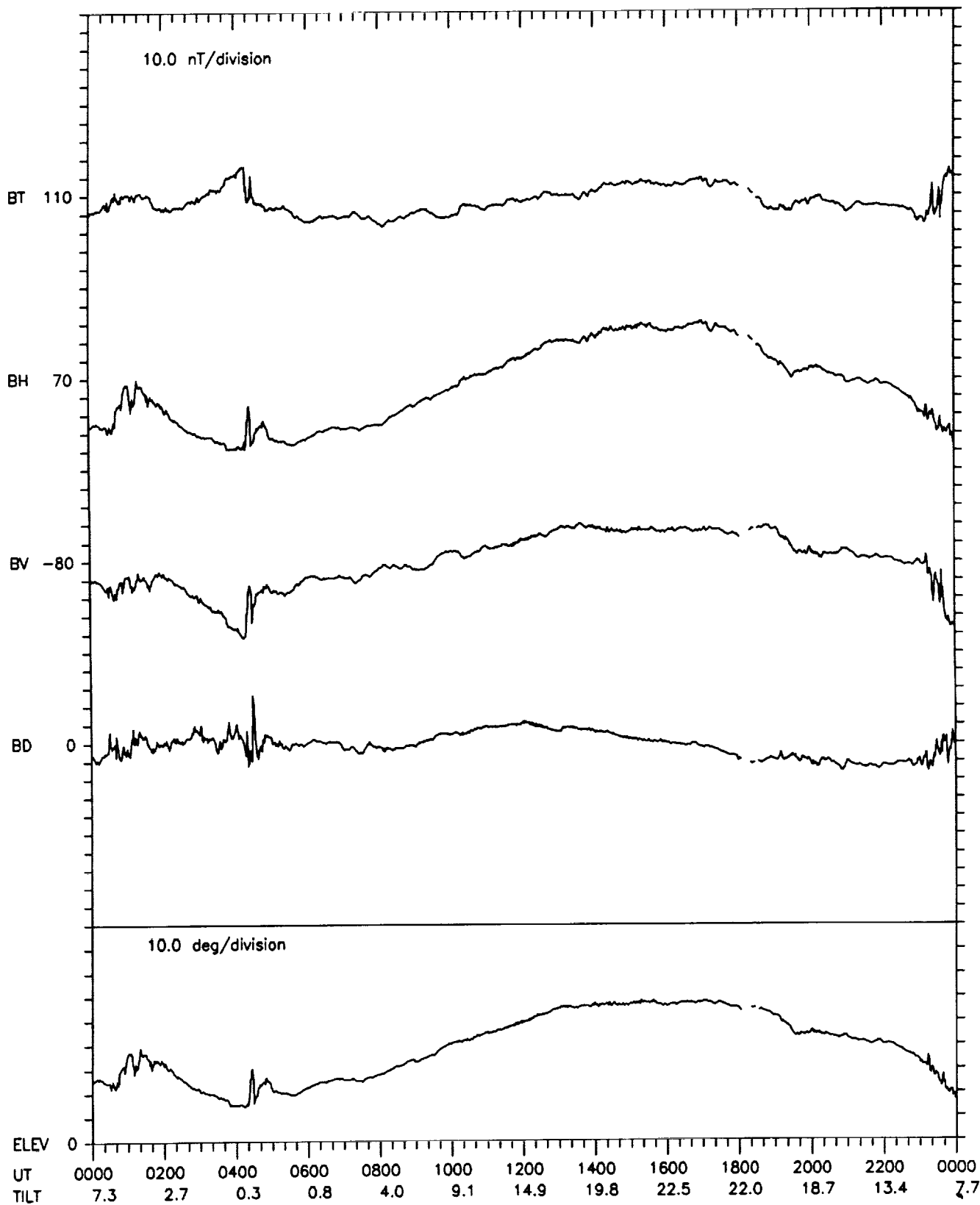
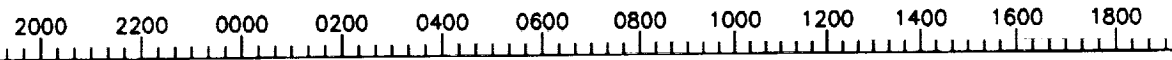


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY110 APR 20

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5

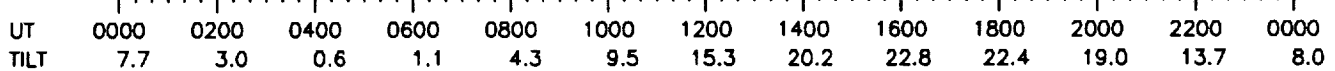
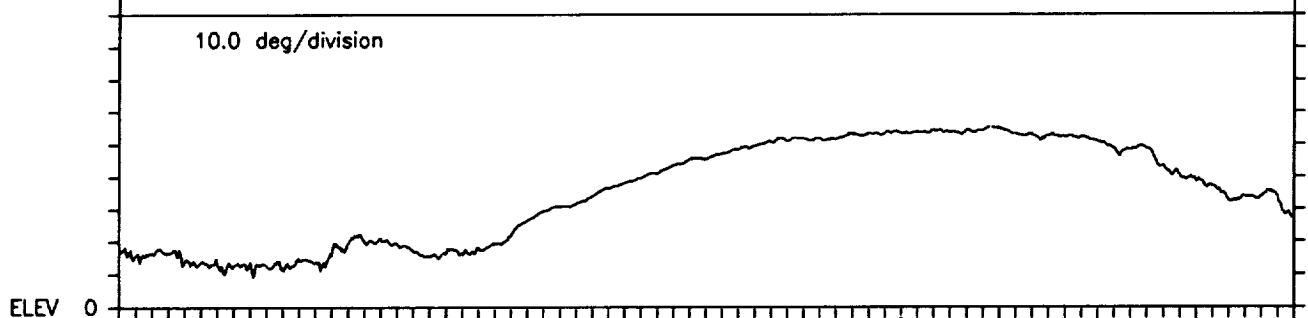
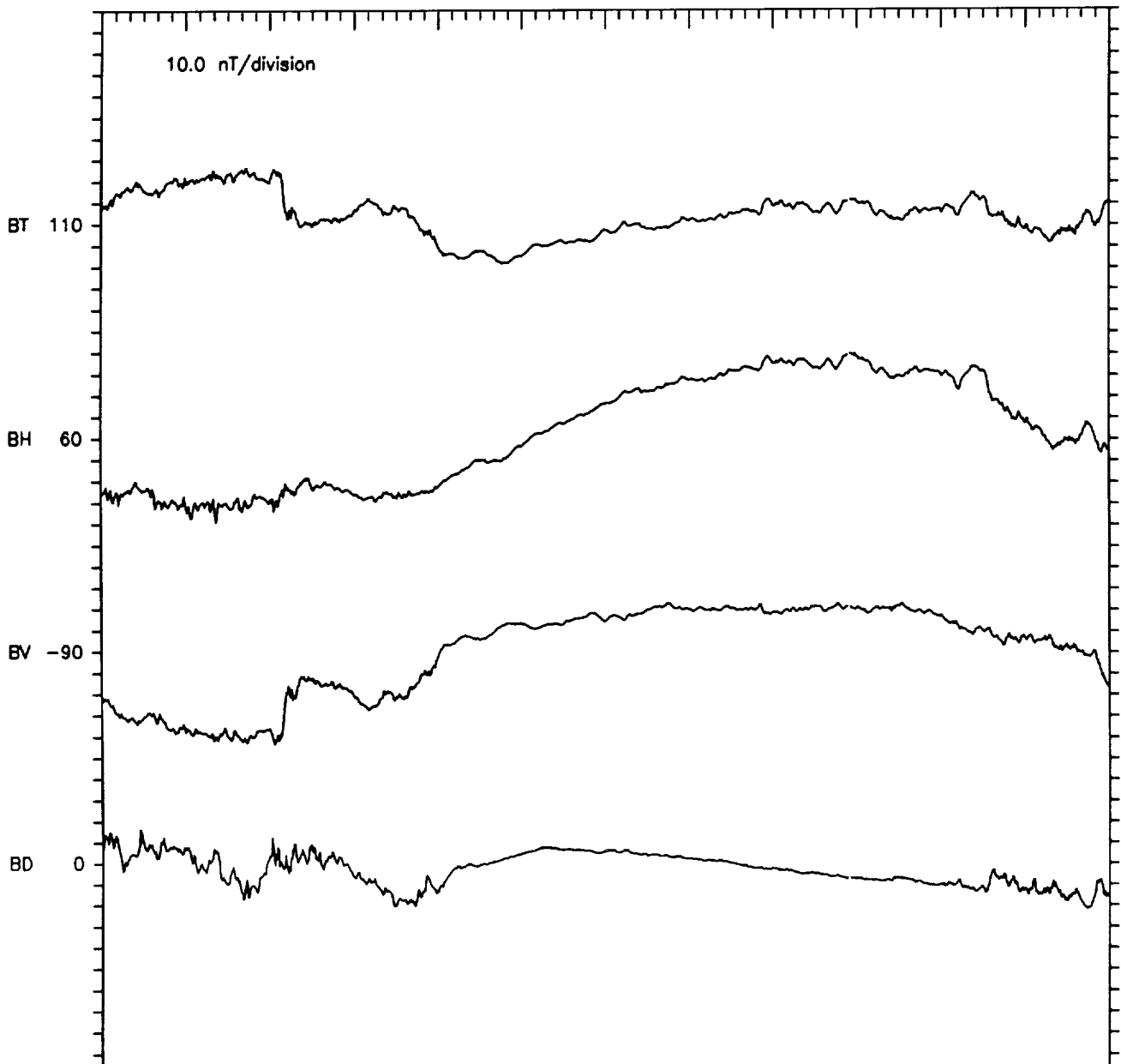
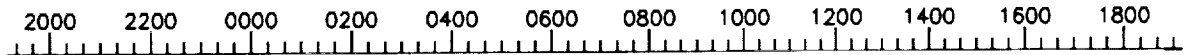


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY111 APR 21

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5

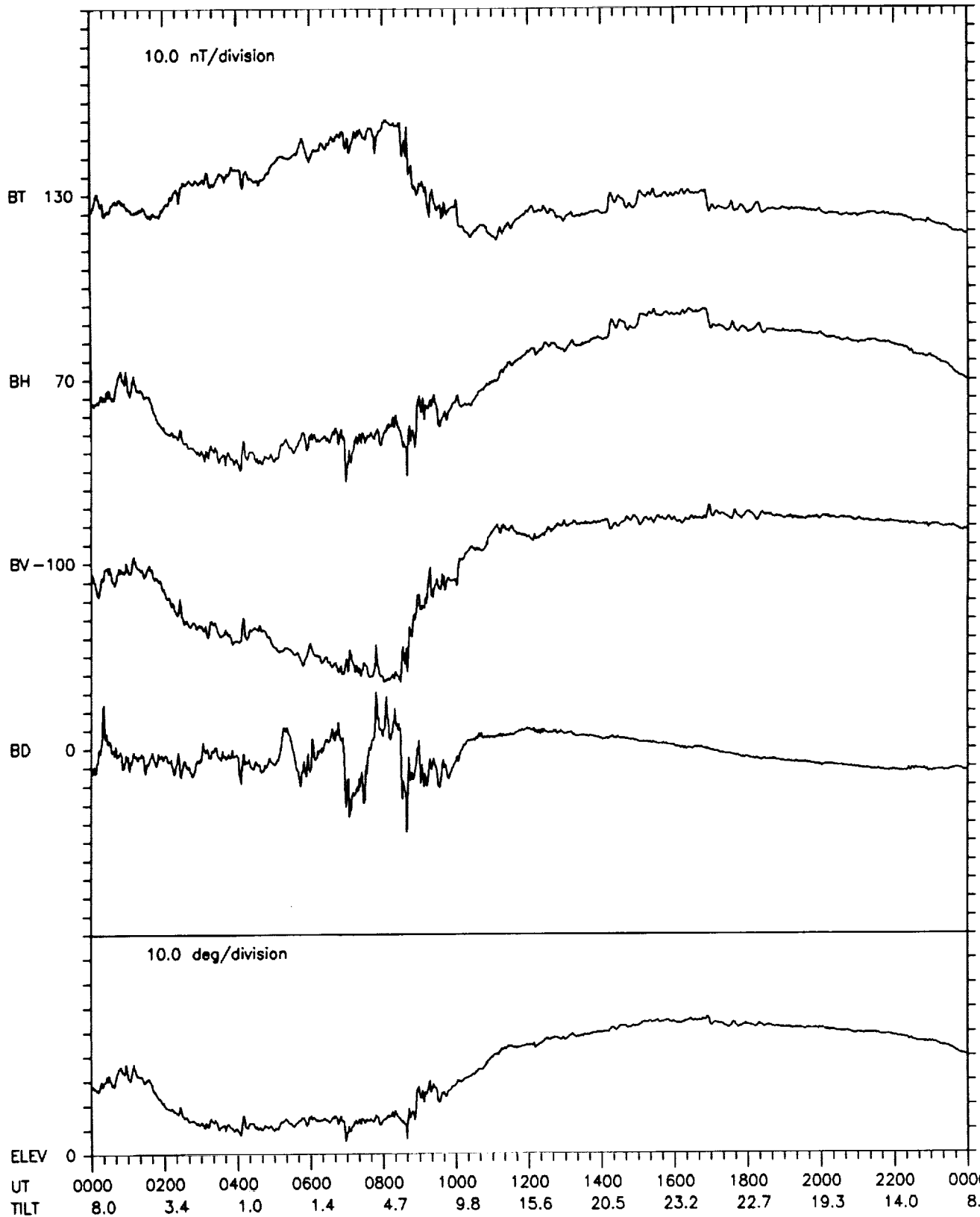


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY112 APR 22

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



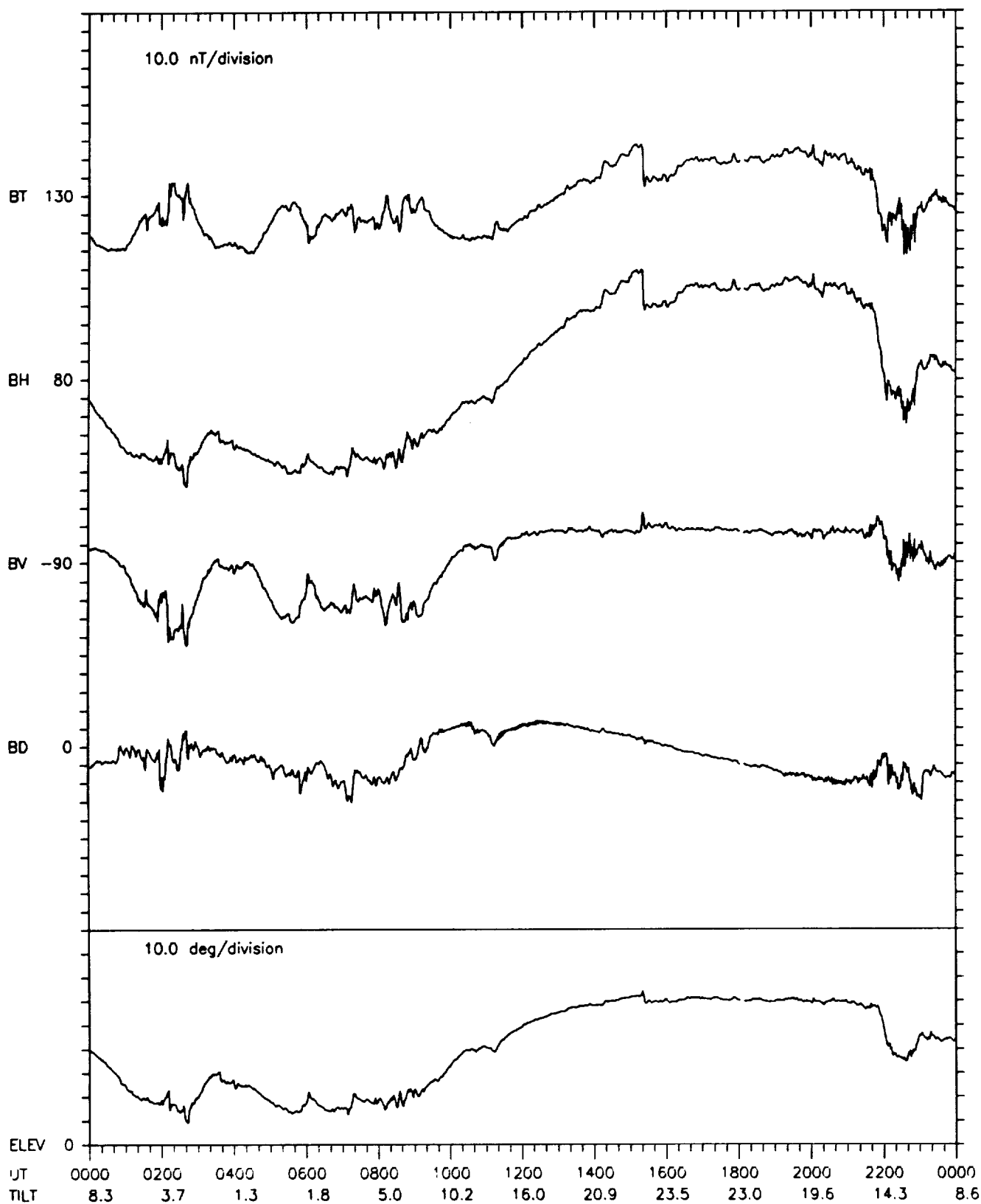


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY113 APR 23

(GEOLON, MAGLAT) = ( -74.6, 11.2)

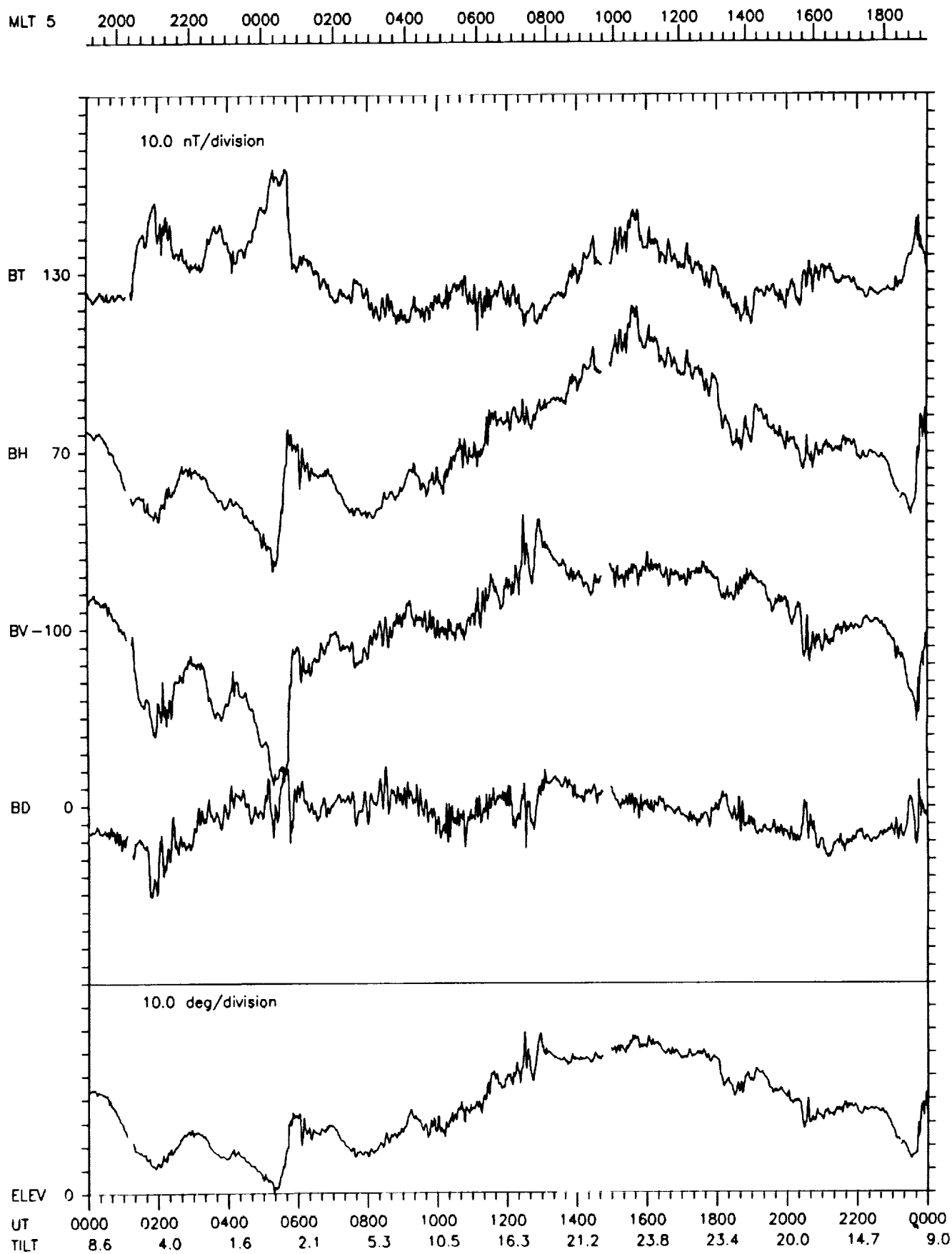
MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY114 APR 24

(GEOLON, MAGLAT) = ( -74.6, 11.2)

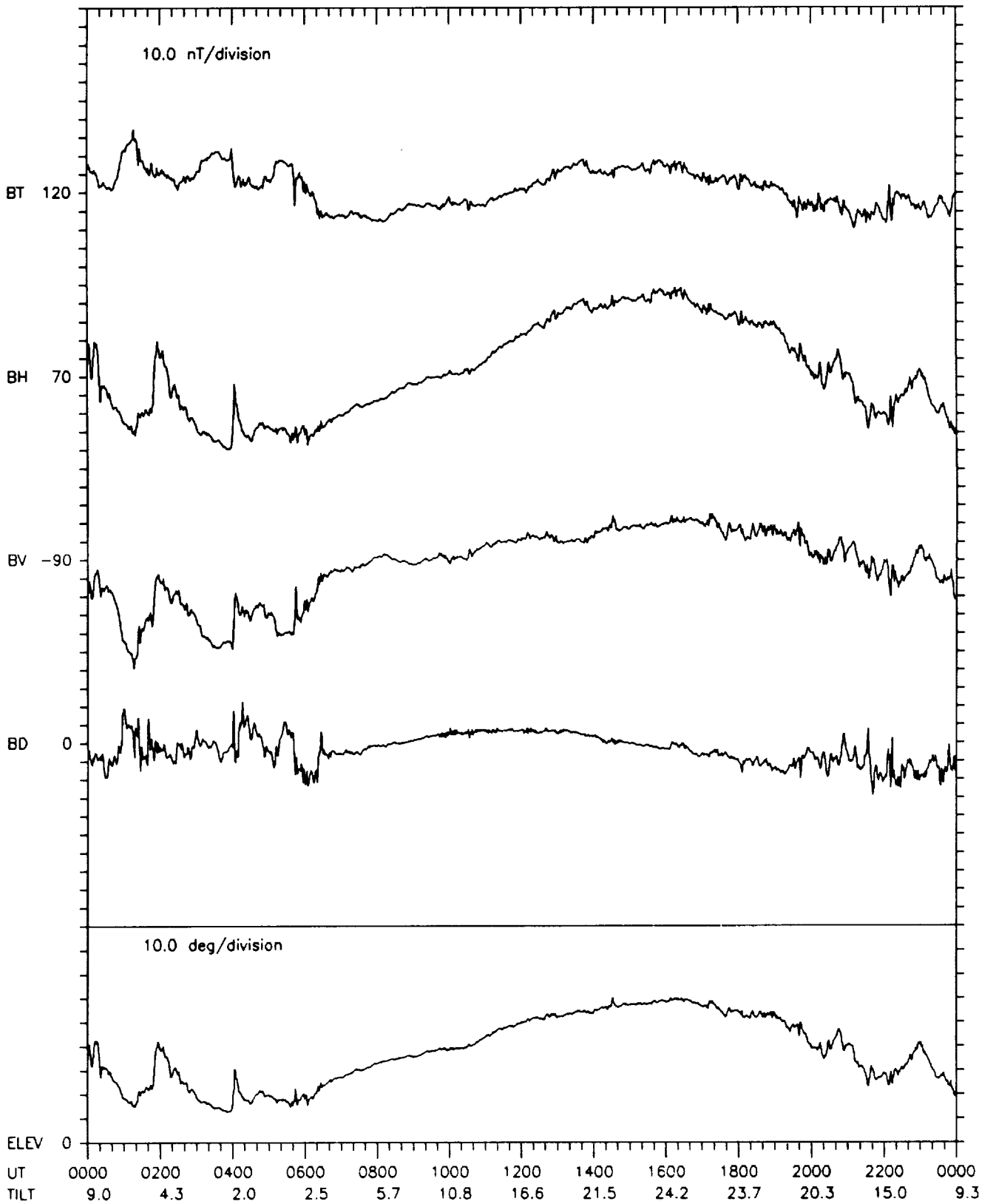


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY115 APR 25

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

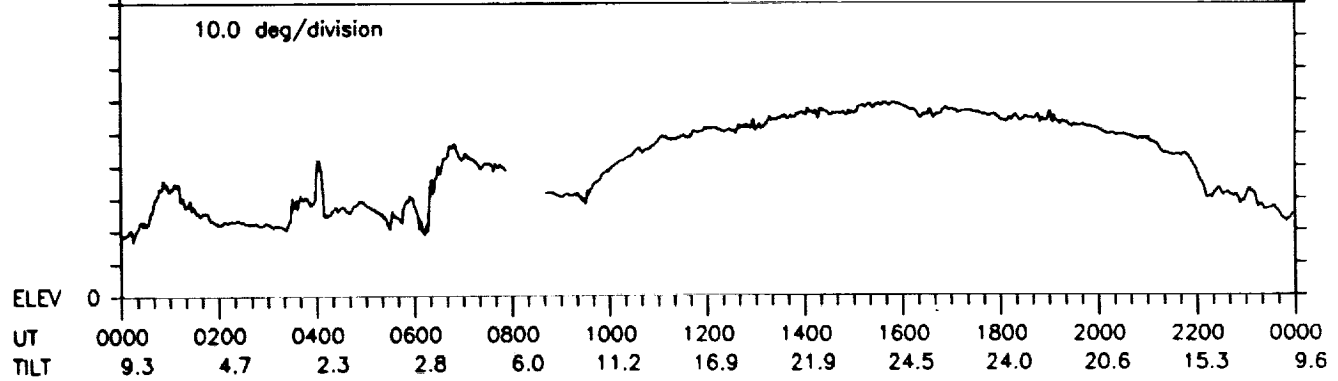
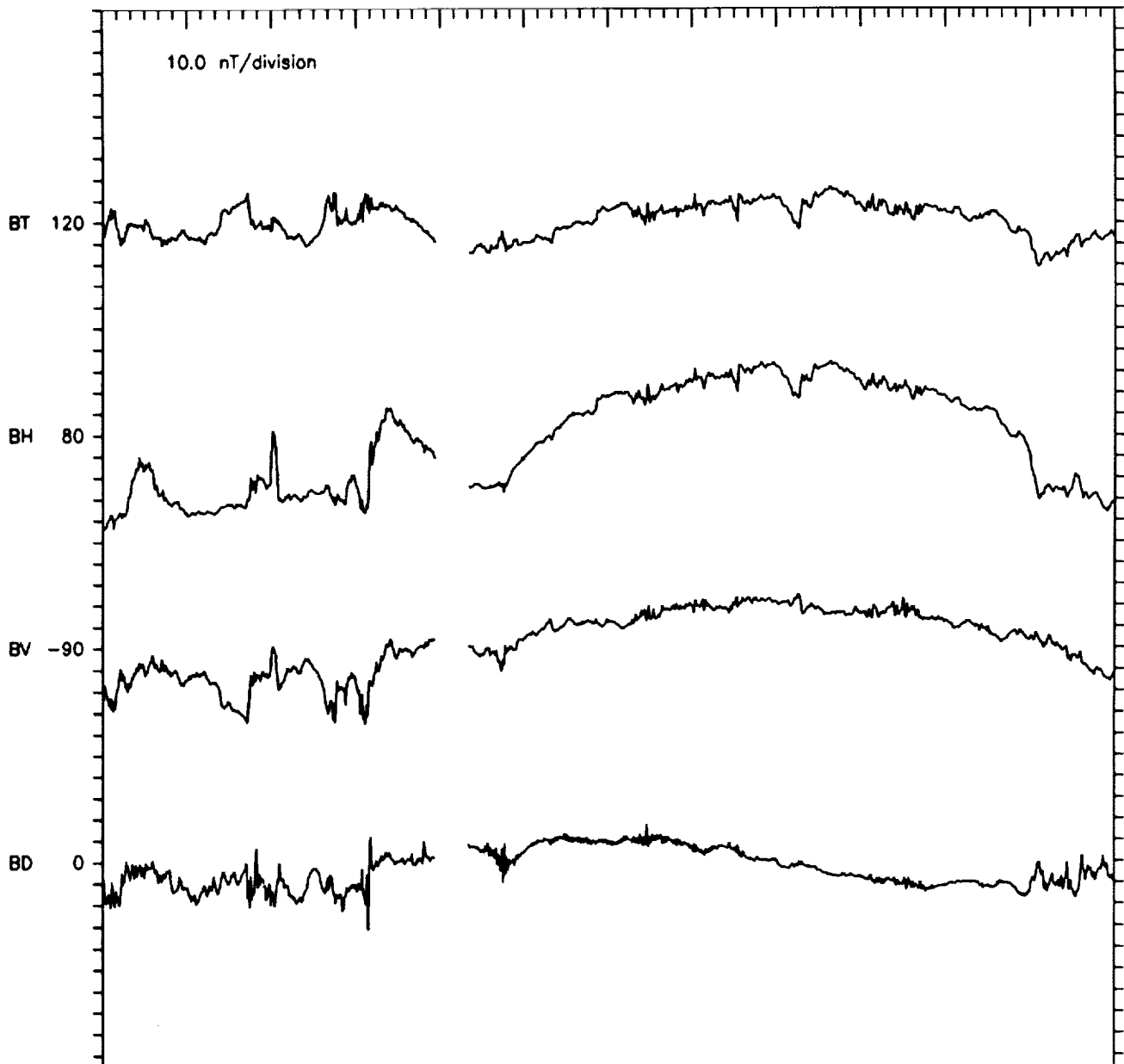
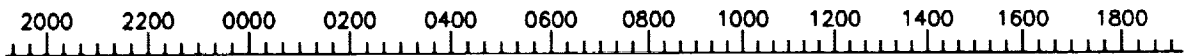


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY116 APR 26

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5

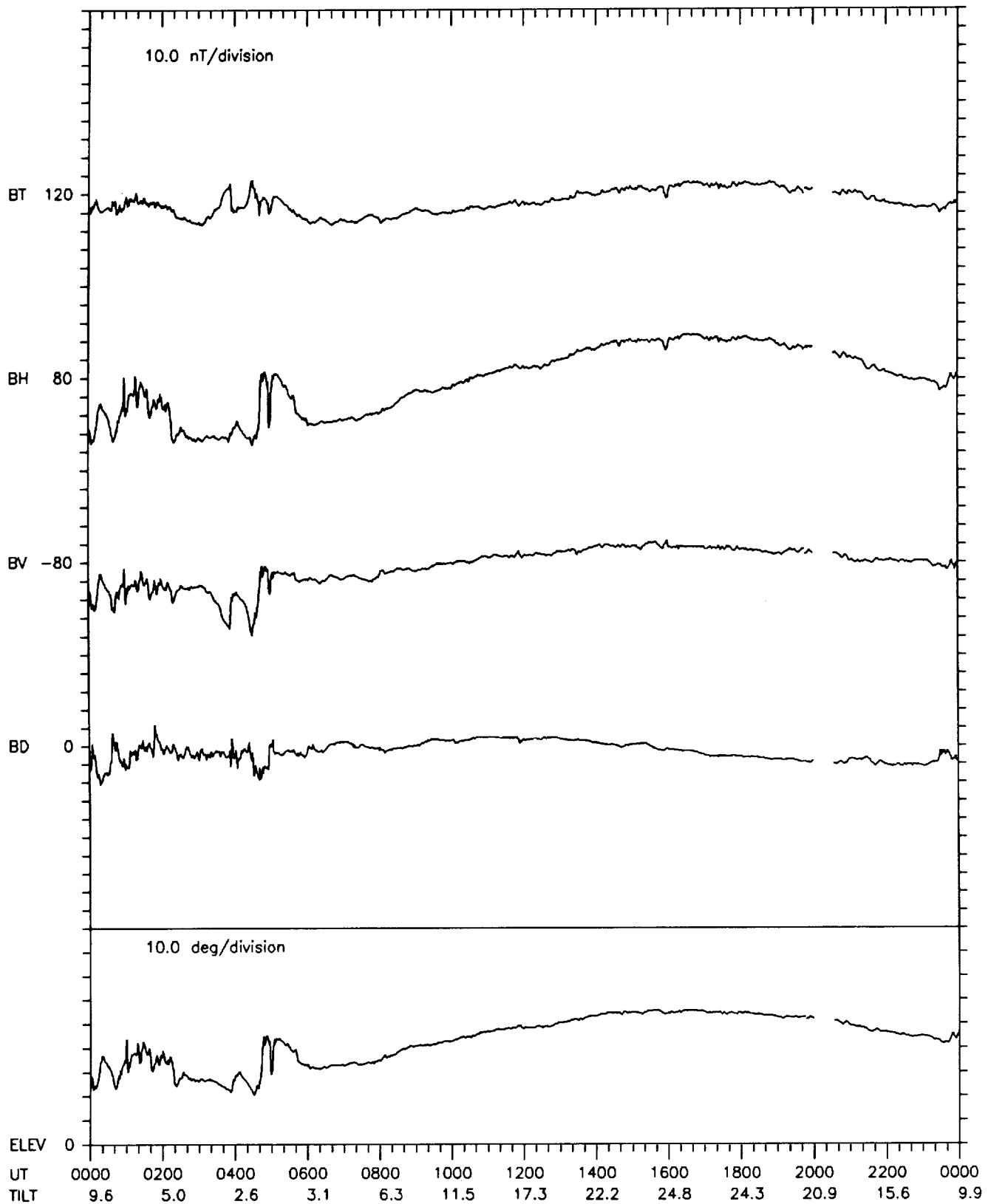


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY117 APR 27

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

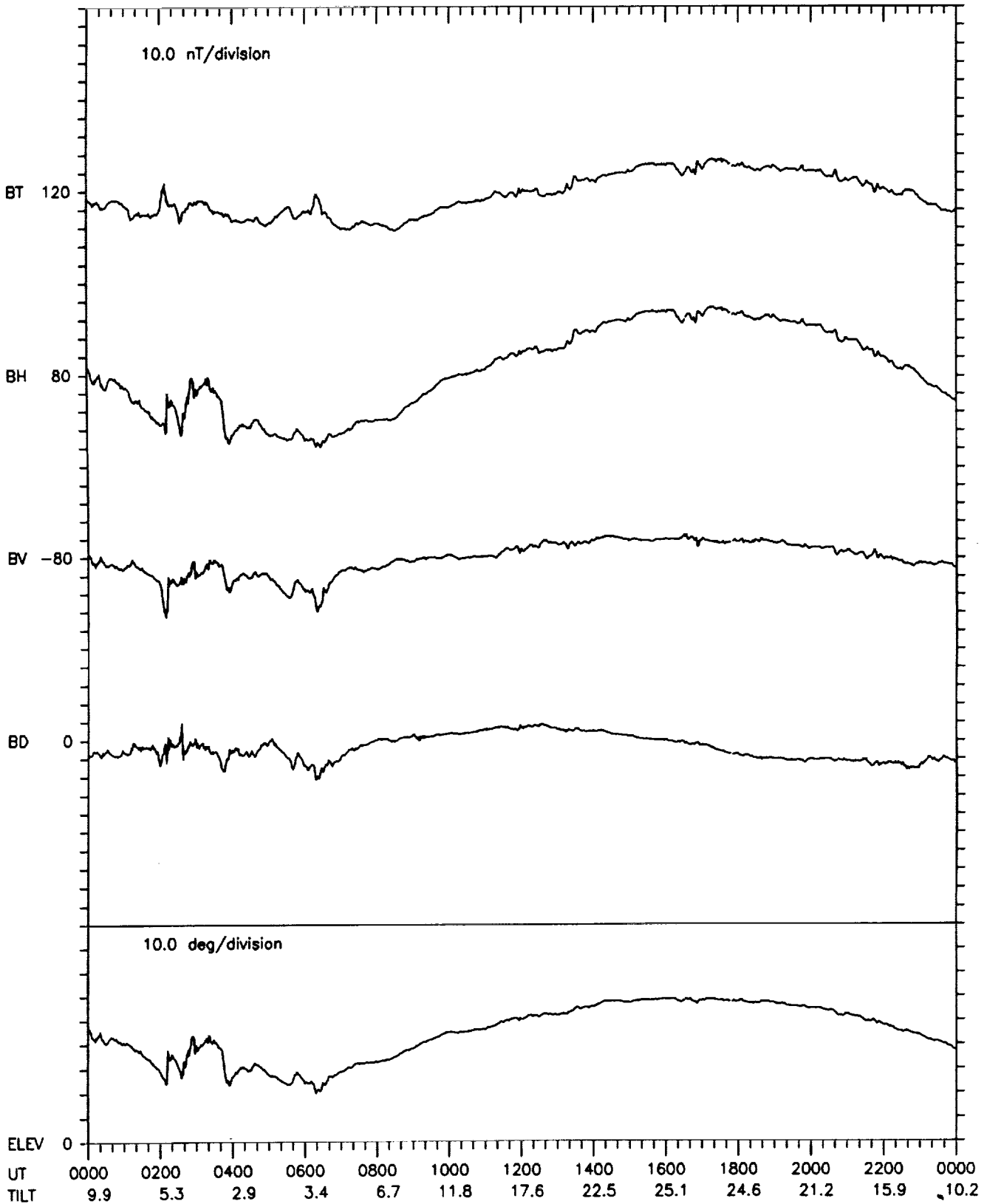


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY118 APR 28

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

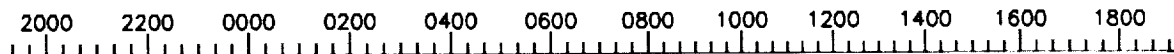


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY119 APR 29

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5



10.0 nT/division

BT 110

BH 60

BV -80

BD 0

10.0 deg/division

ELEV 0

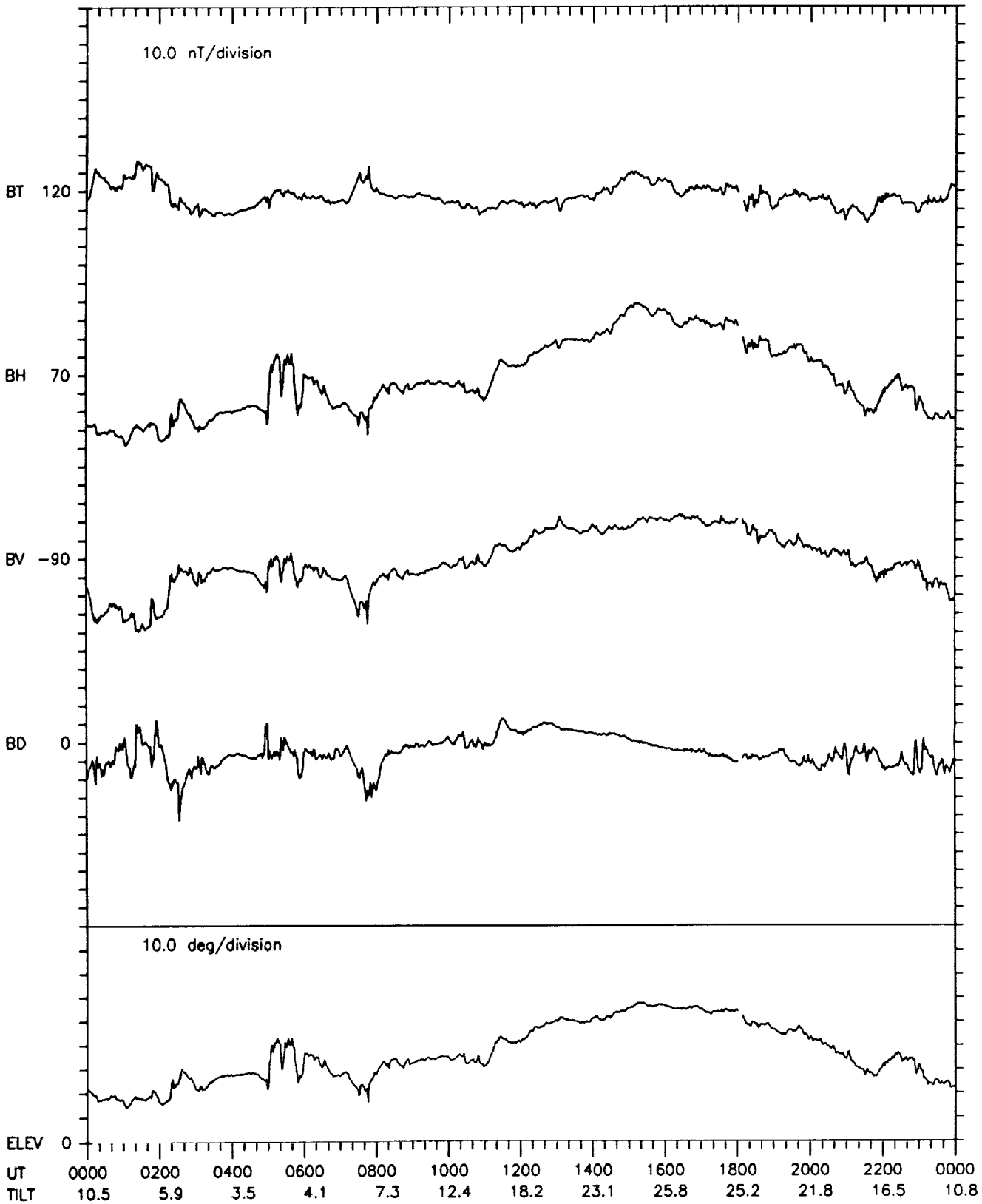
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
TILT 10.2 5.6 3.2 3.7 7.0 12.1 17.9 22.8 25.4 24.9 21.5 16.2 10.5

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY120 APR 30

(GEOLON, MAGLAT) = ( -74.6, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



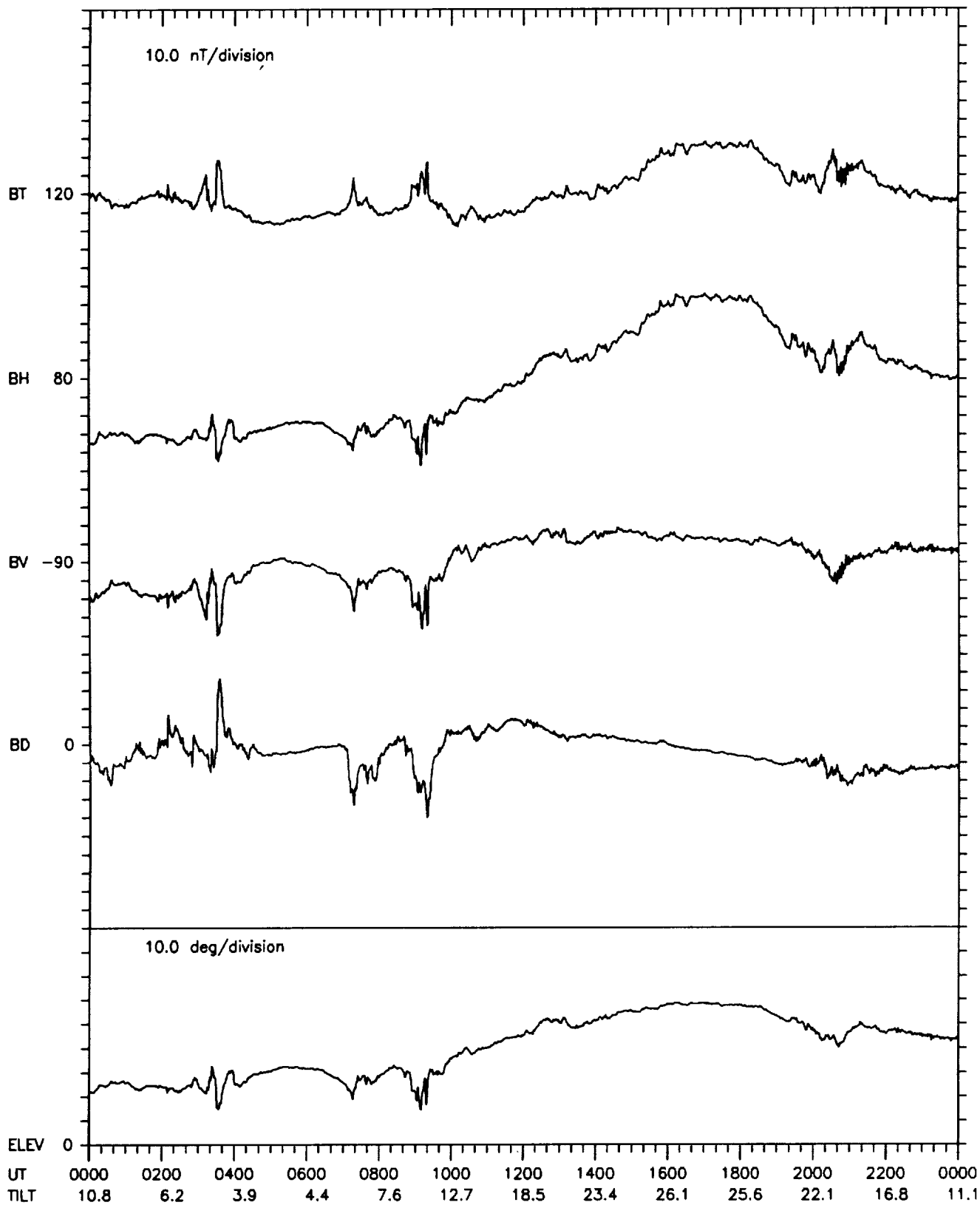


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY121 MAY 1

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

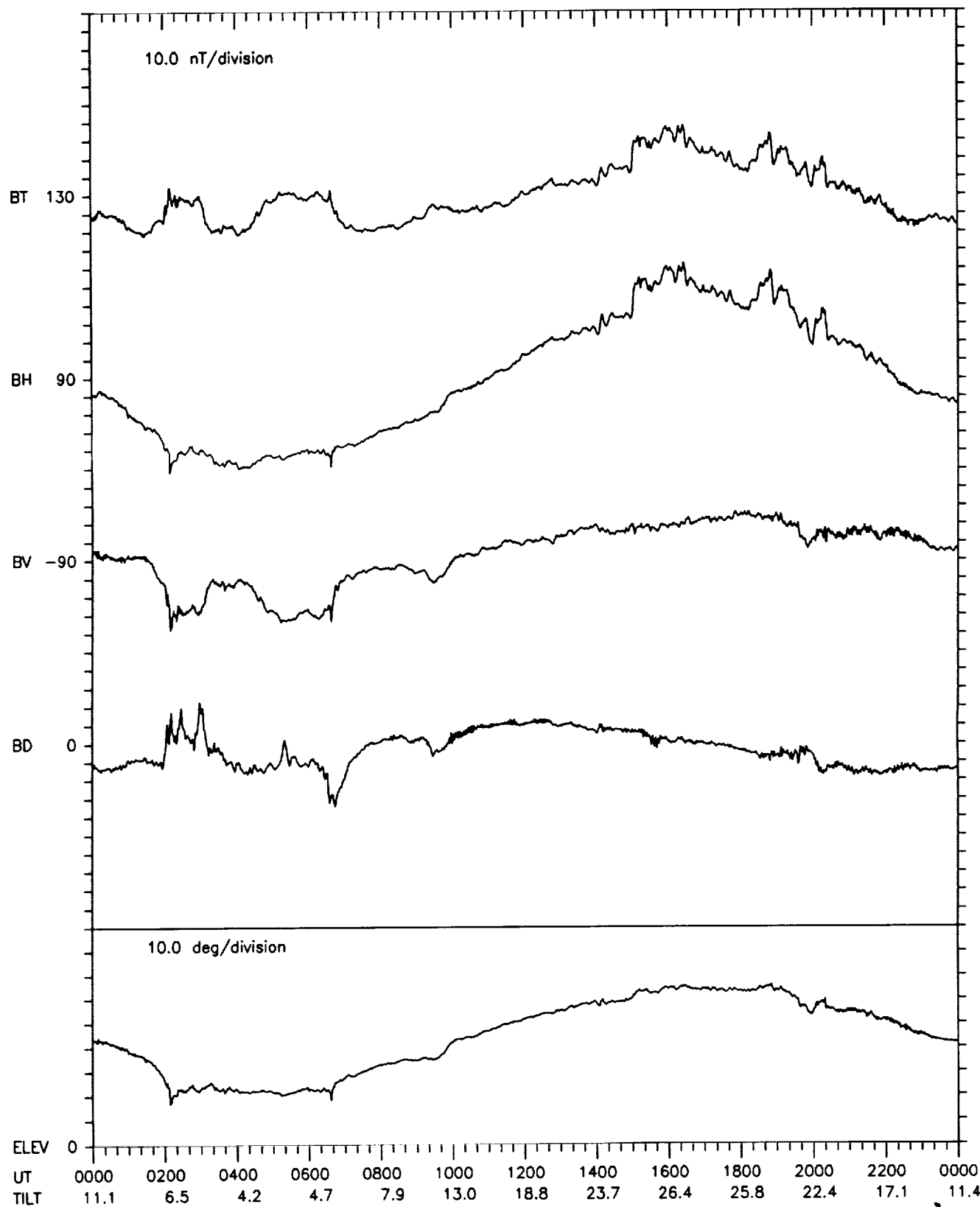
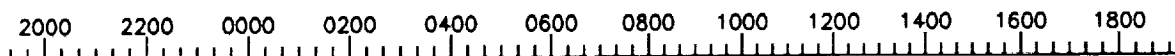


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY122 MAY 2

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

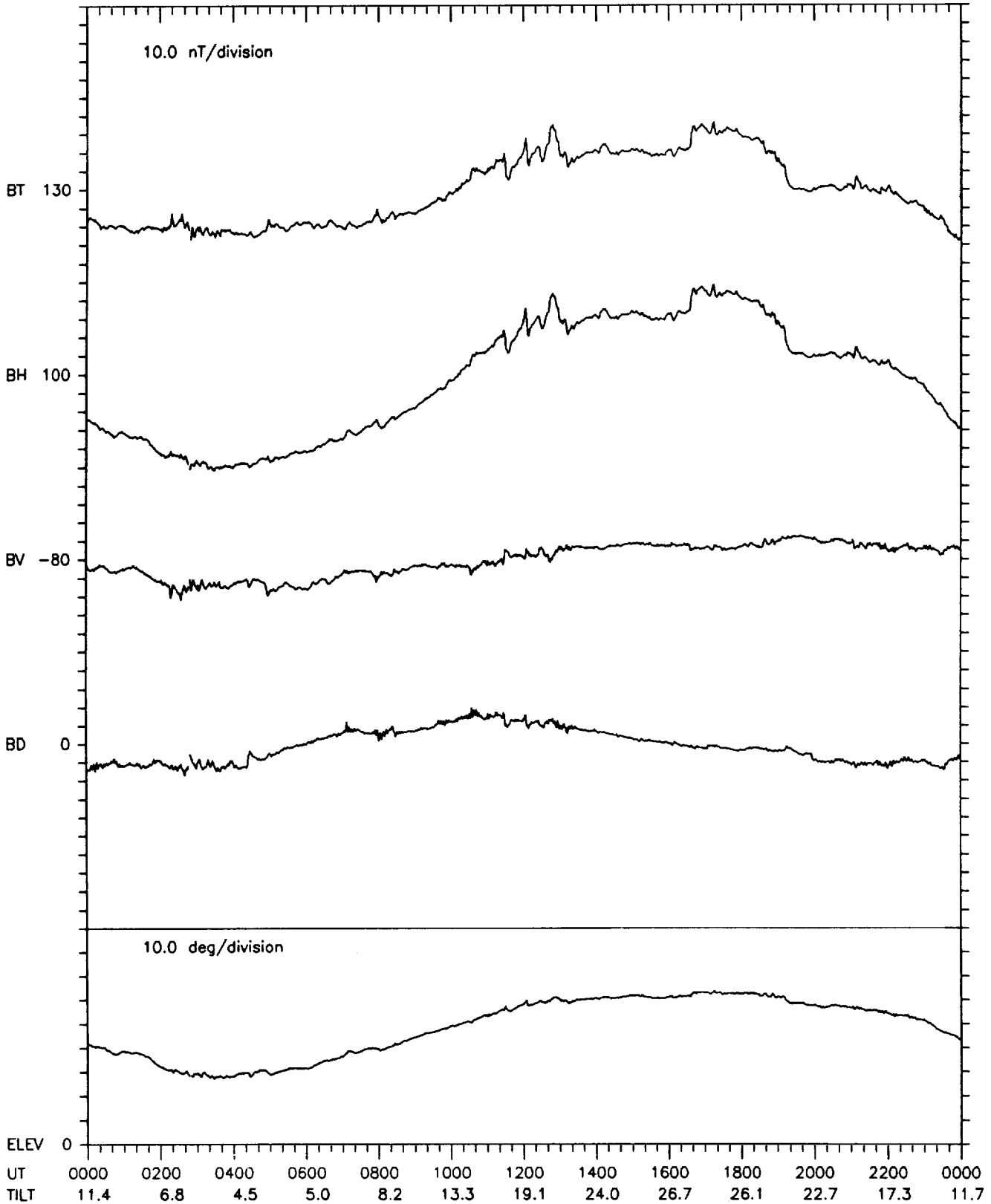
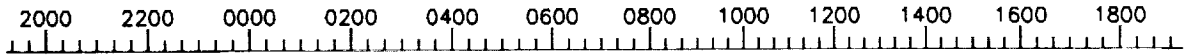


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY123 MAY 3

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

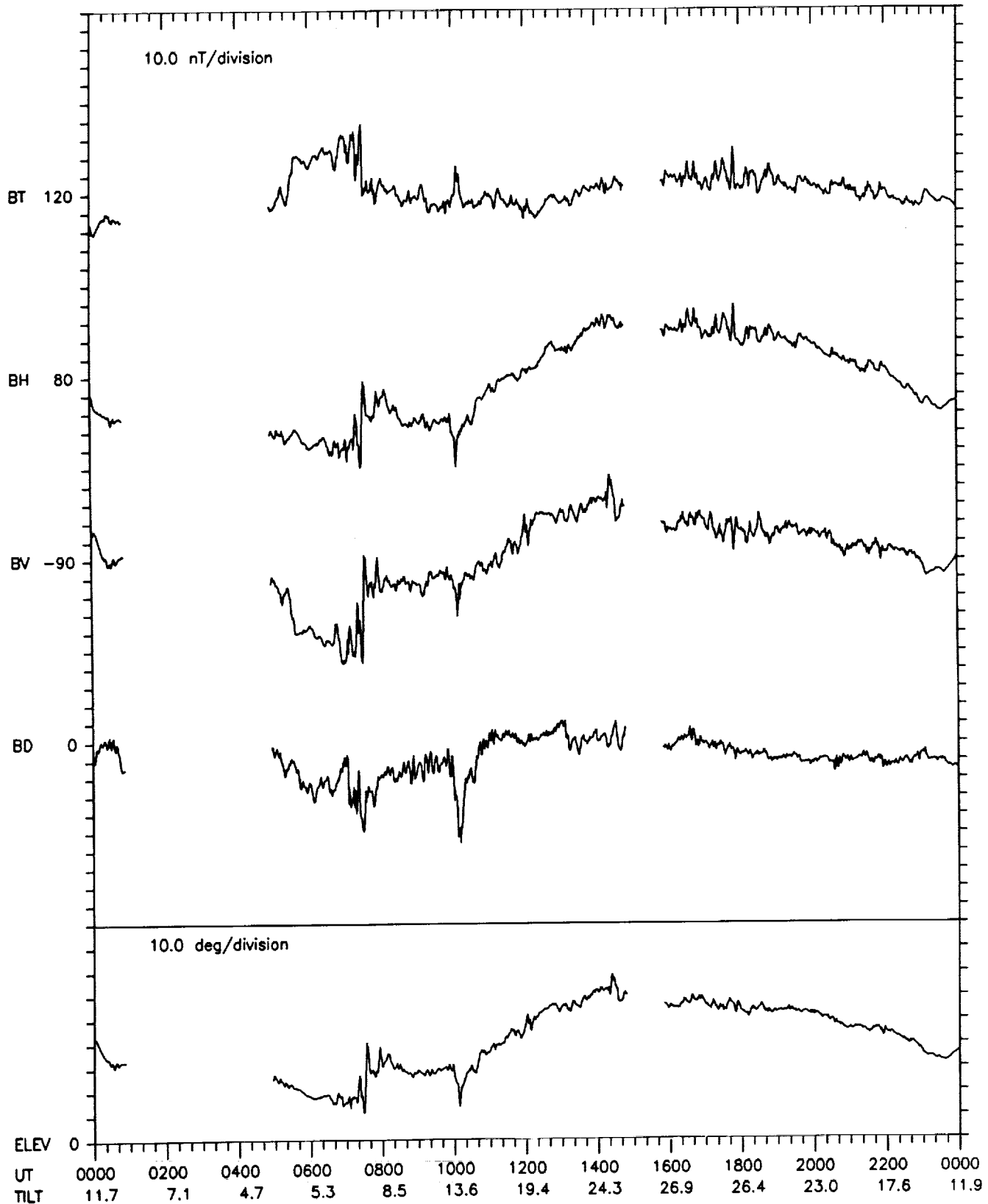


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY124 MAY 4

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

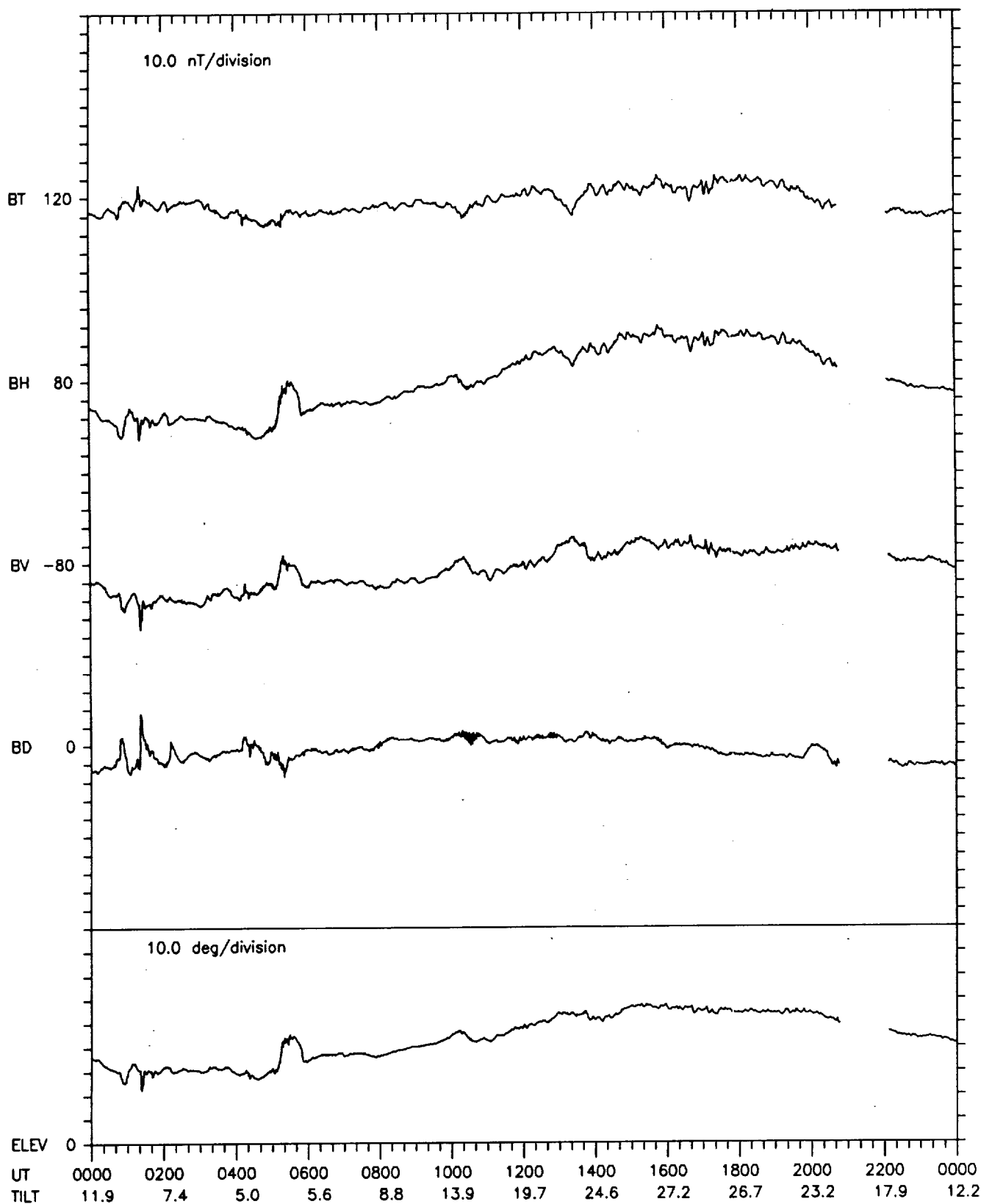


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY125 MAY 5

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

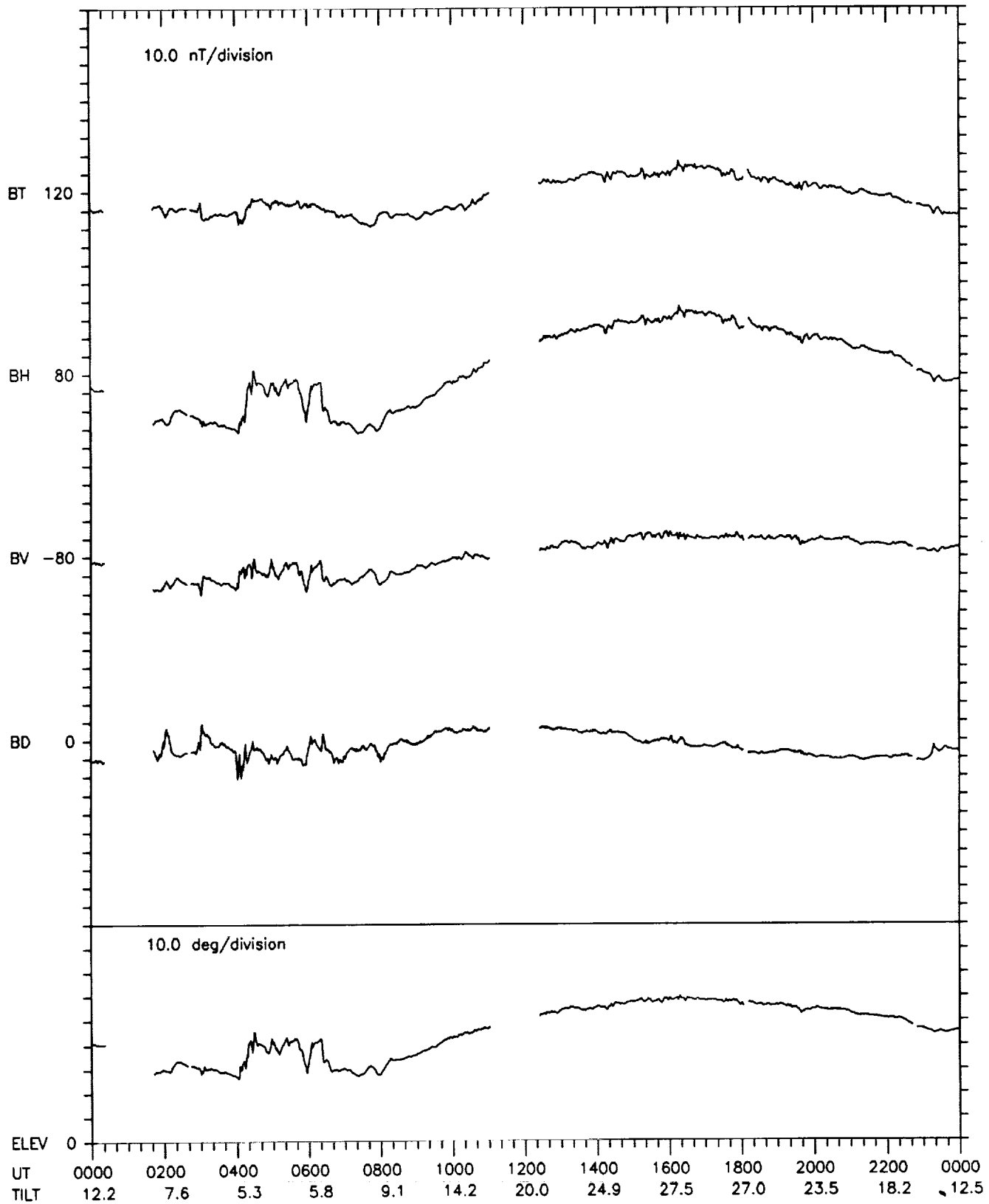


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY126 MAY 6

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

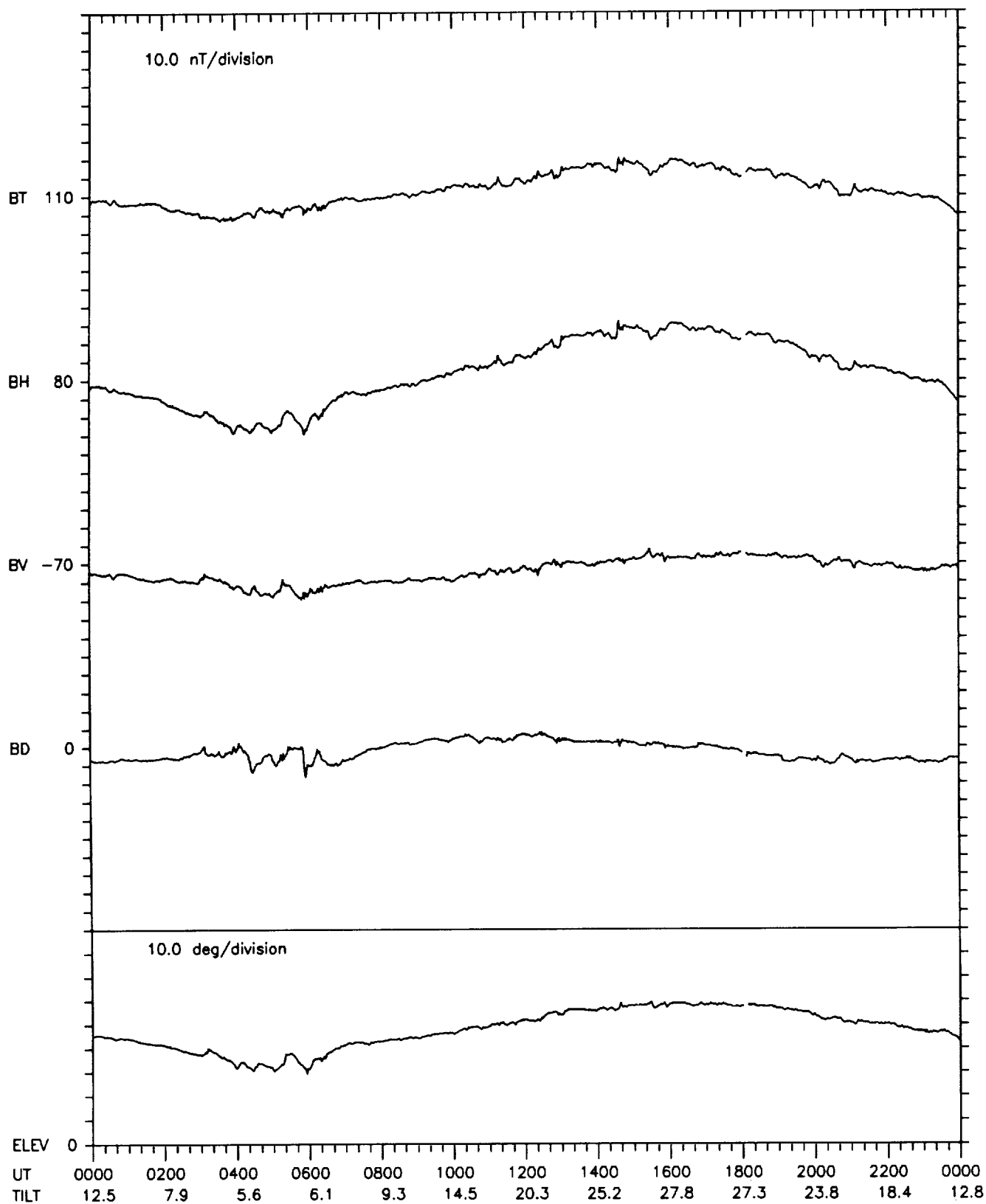


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY127 MAY 7

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

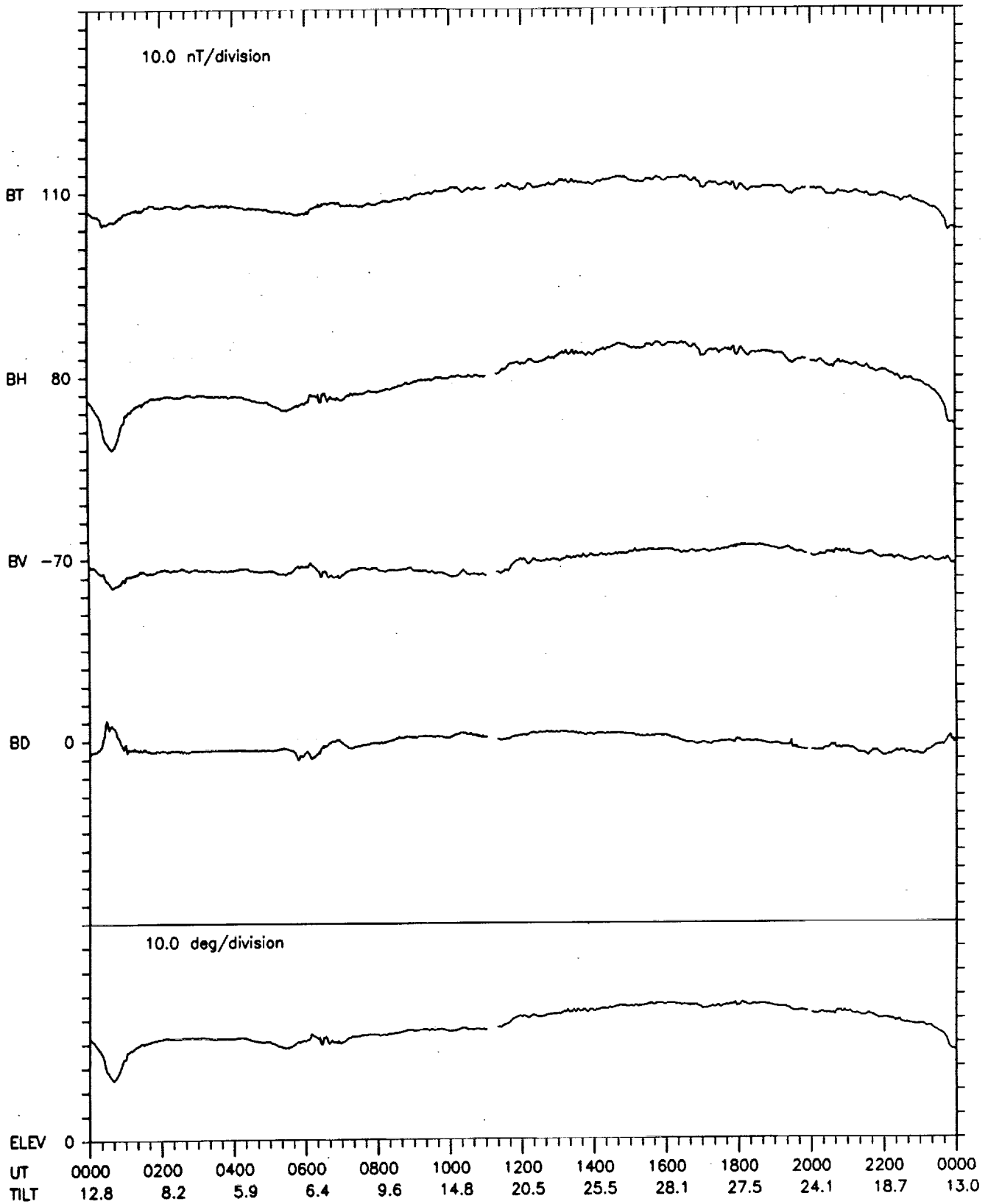


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY128 MAY 8

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



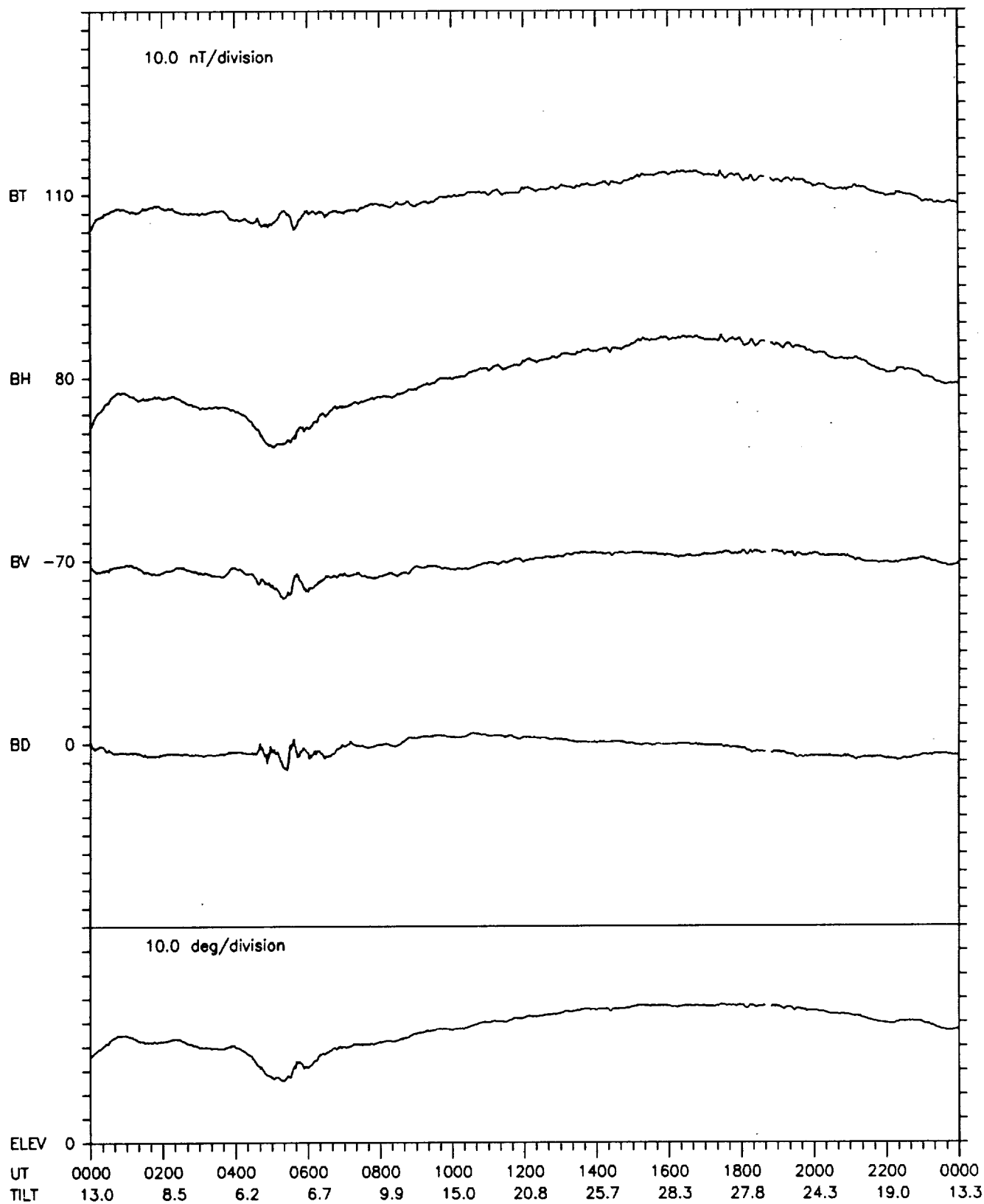


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY129 MAY 9

(GEOLON, MAGLAT) = ( -74.8, 11.2)

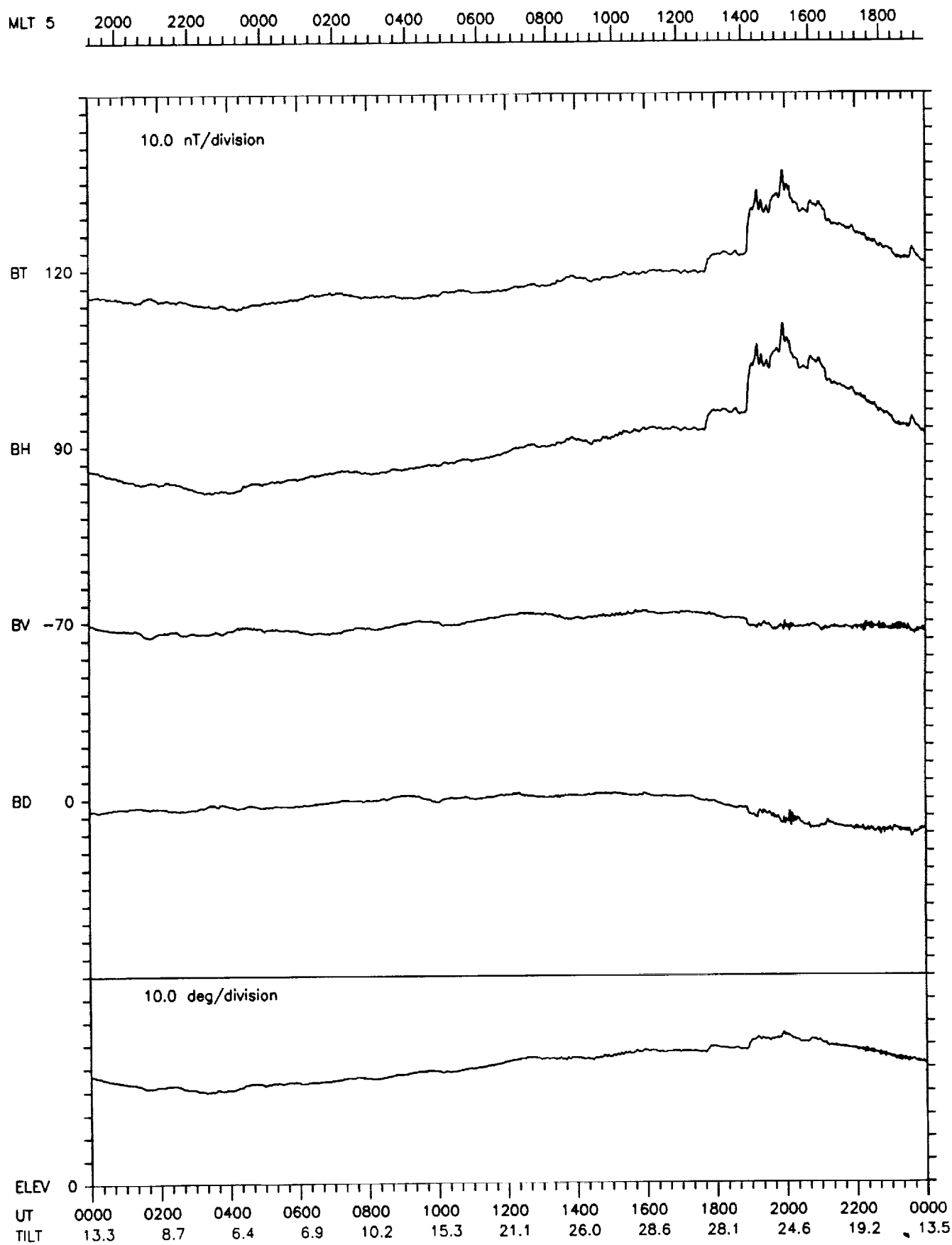
MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY130 MAY 10

(GEOLON, MAGLAT) = ( -74.8, 11.2)

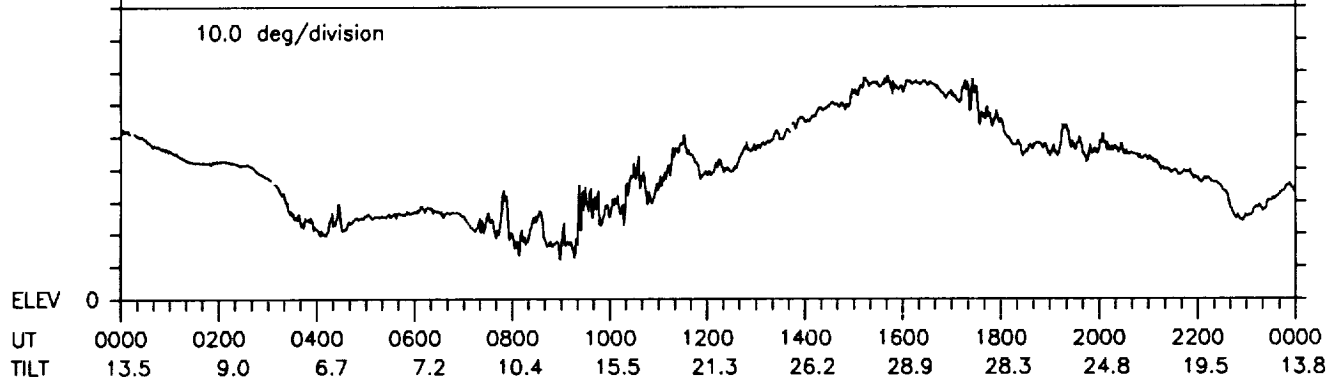
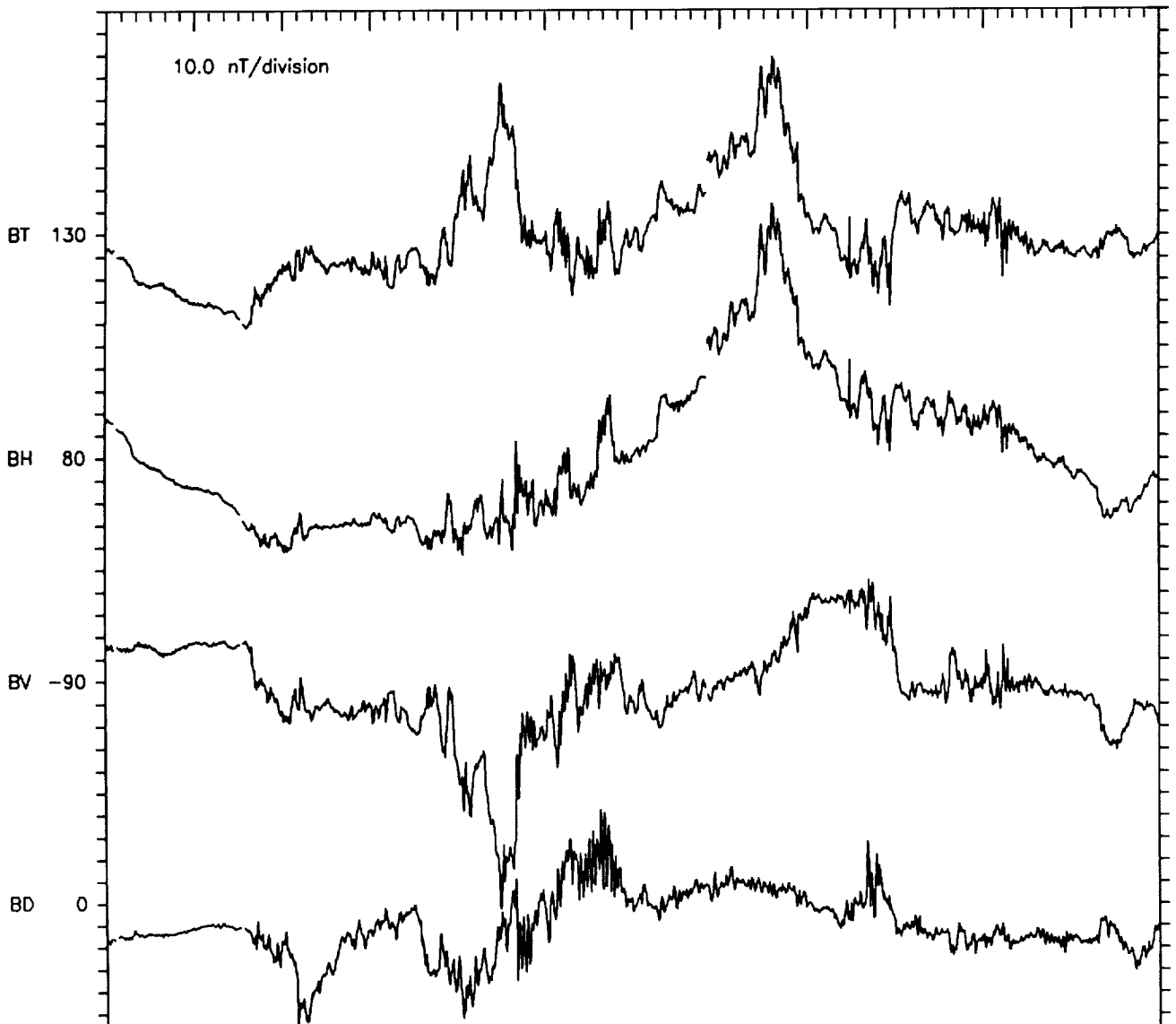


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY131 MAY 11

(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

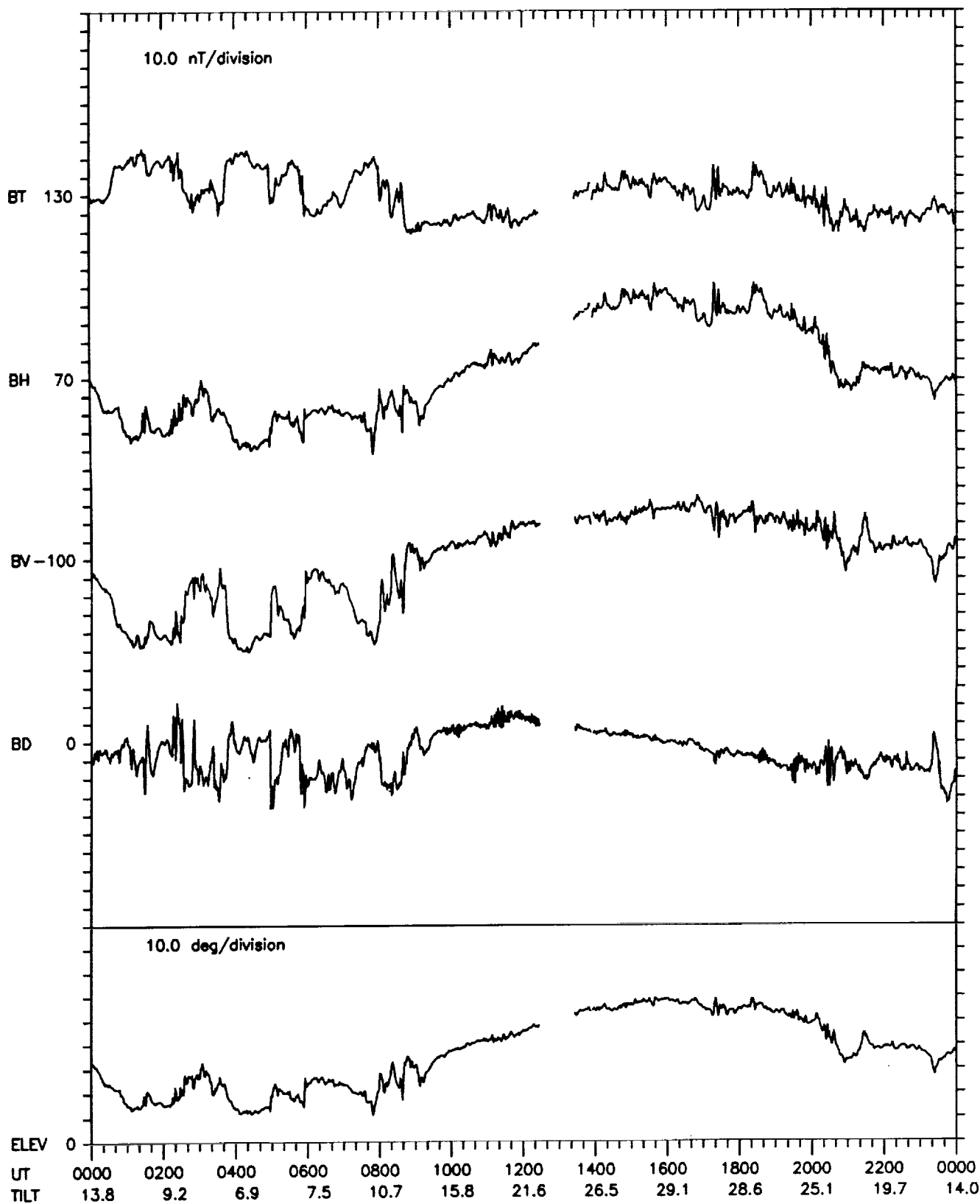


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY132 MAY 12

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

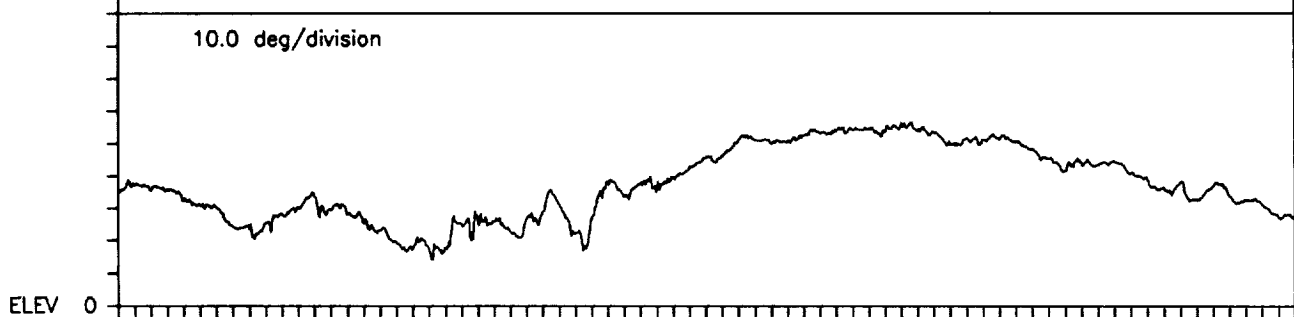
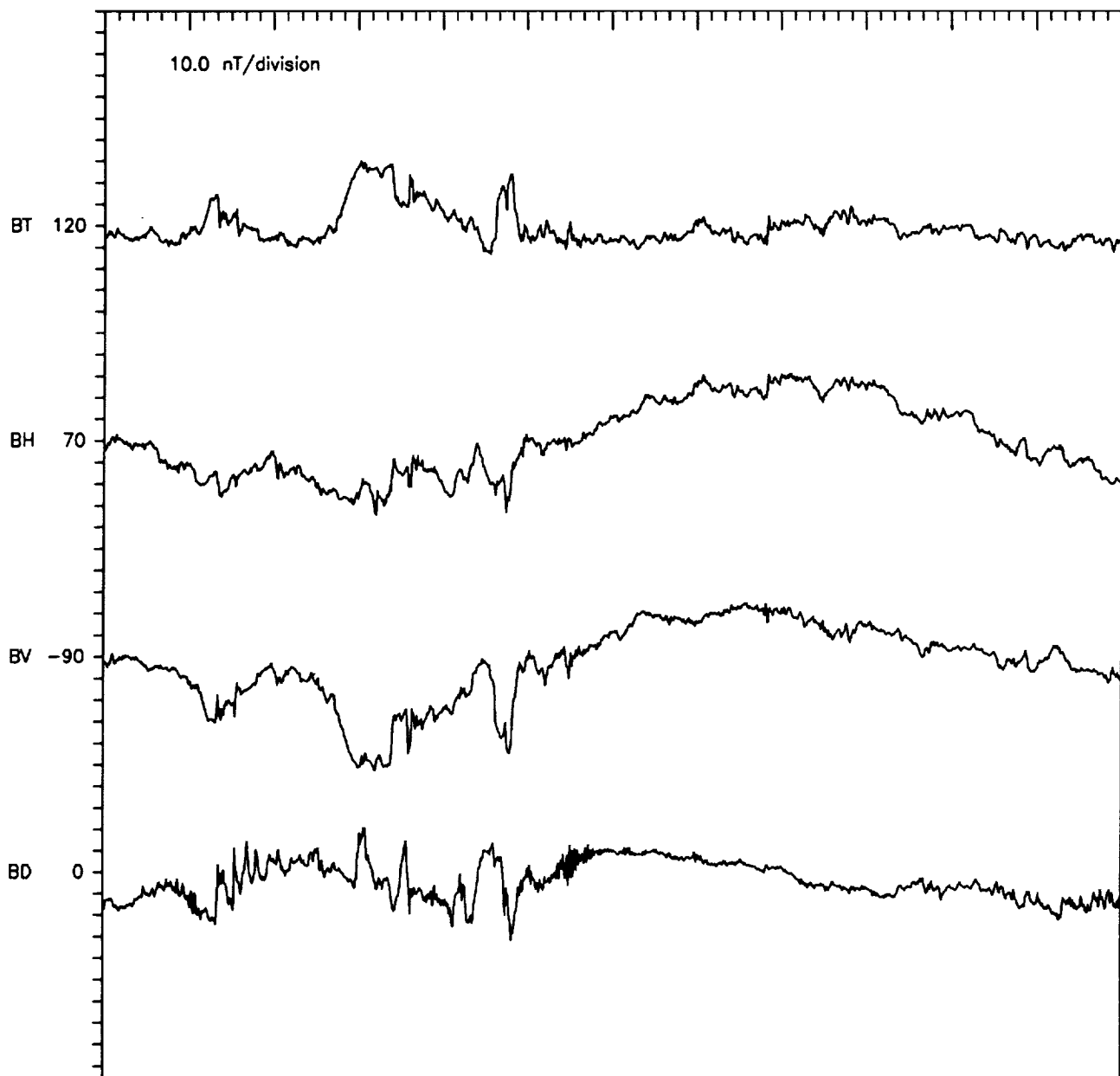


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY133 MAY 13

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000

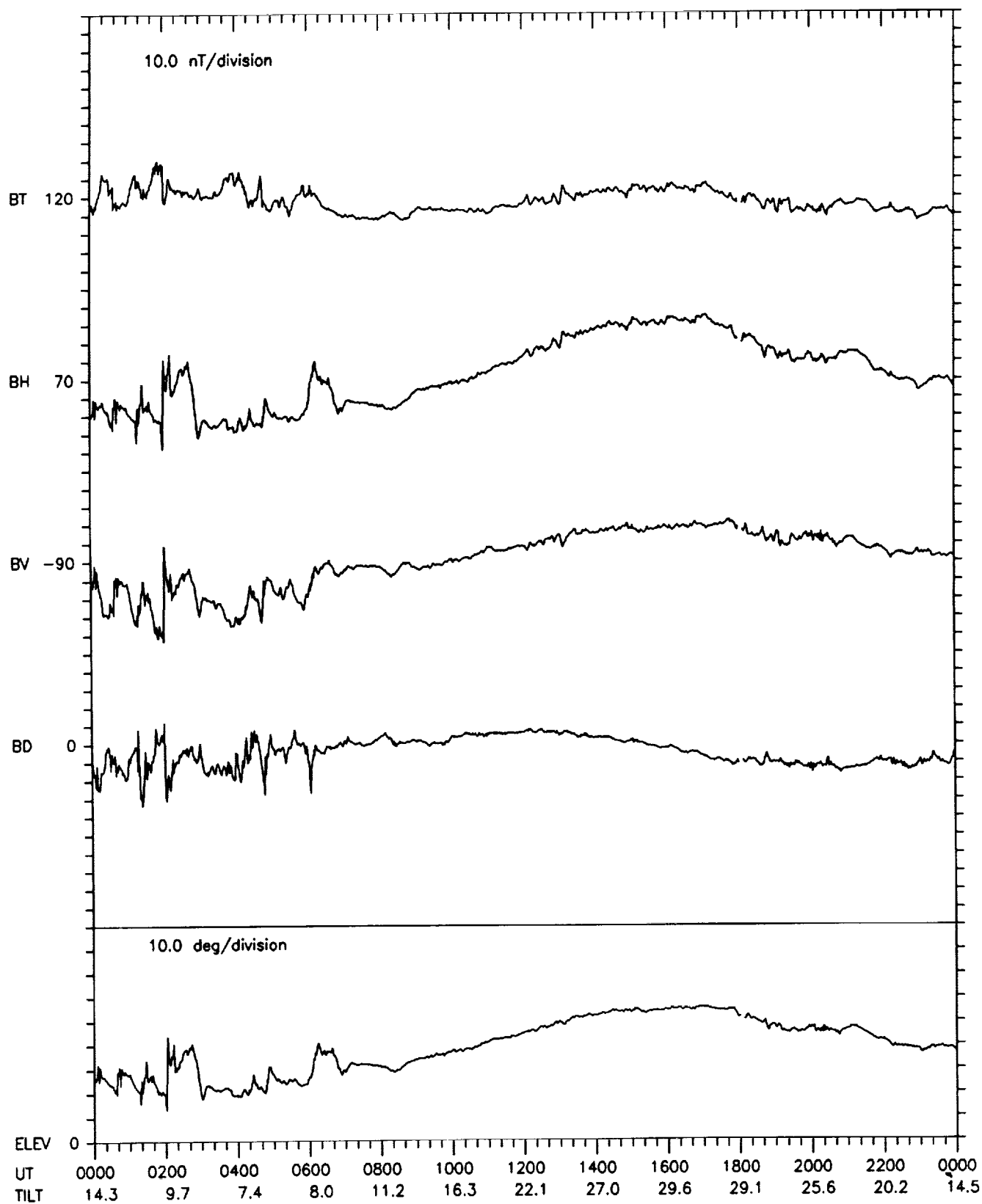
TILT 14.0 9.5 7.2 7.7 10.9 16.0 21.8 26.7 29.4 28.8 25.3 20.0 14.3

# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY134 MAY 14

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

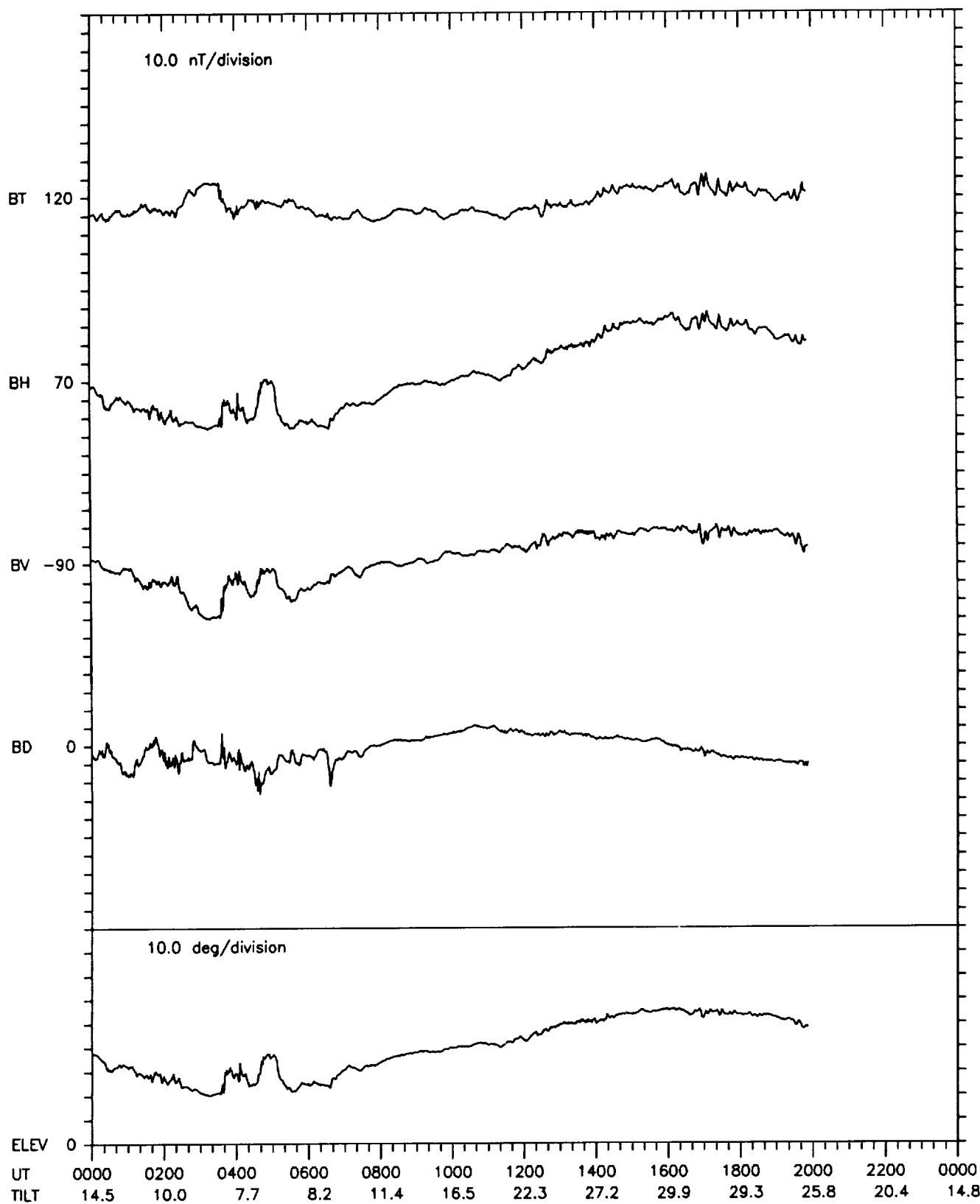


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY135 MAY 15

(GEOLON, MAGLAT) = ( -74.9, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

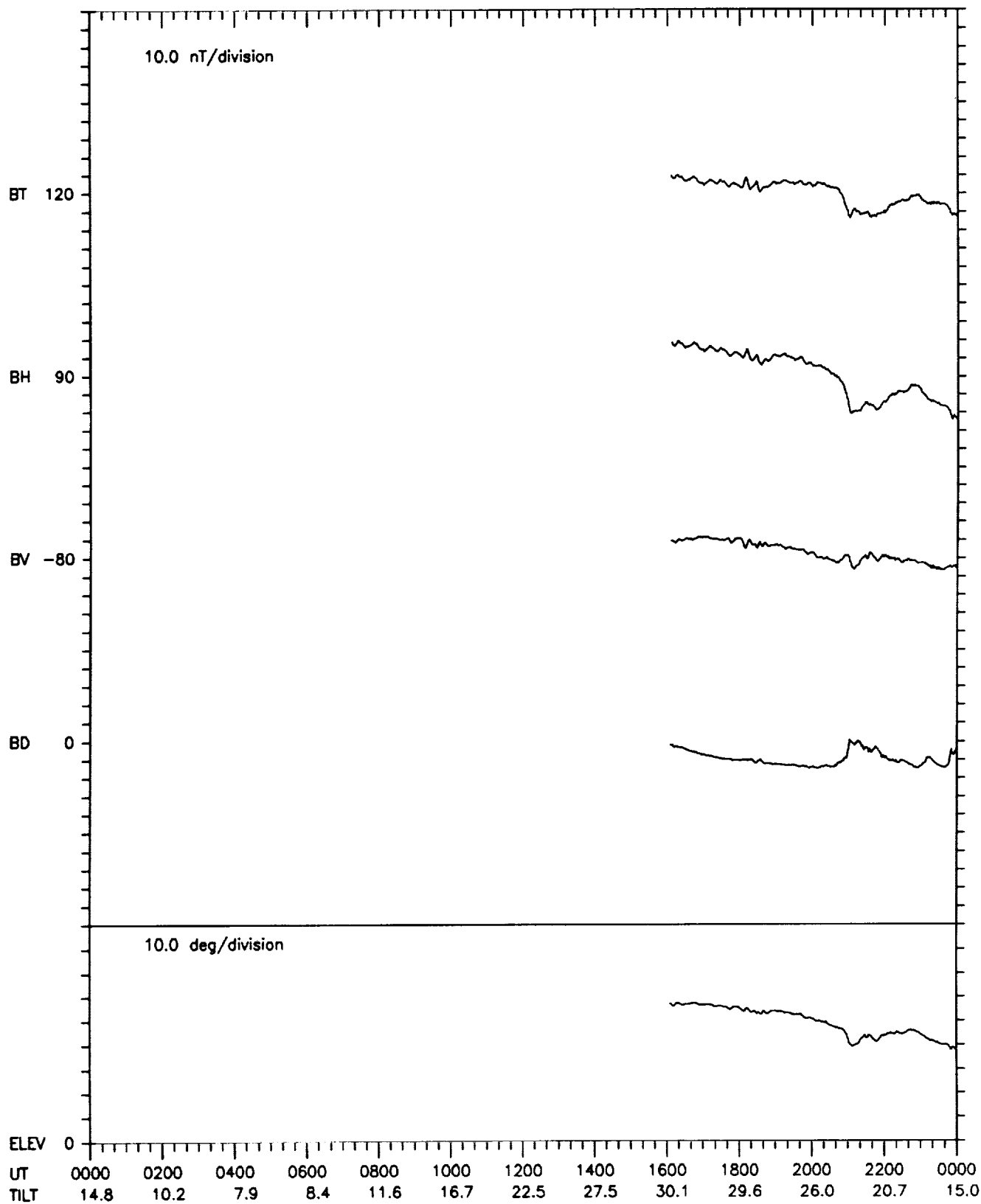


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY136 MAY 16

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



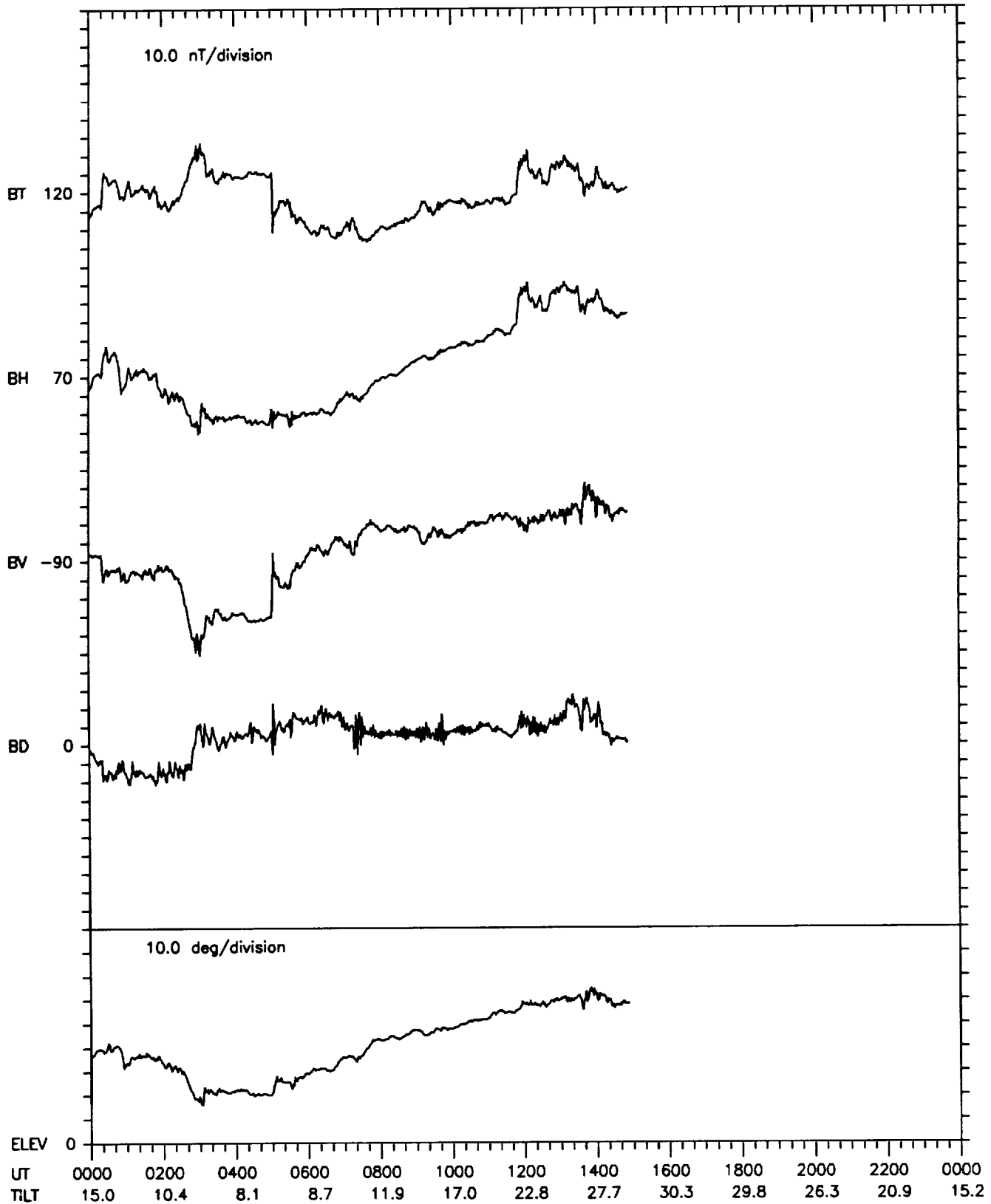


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY137 MAY 17

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

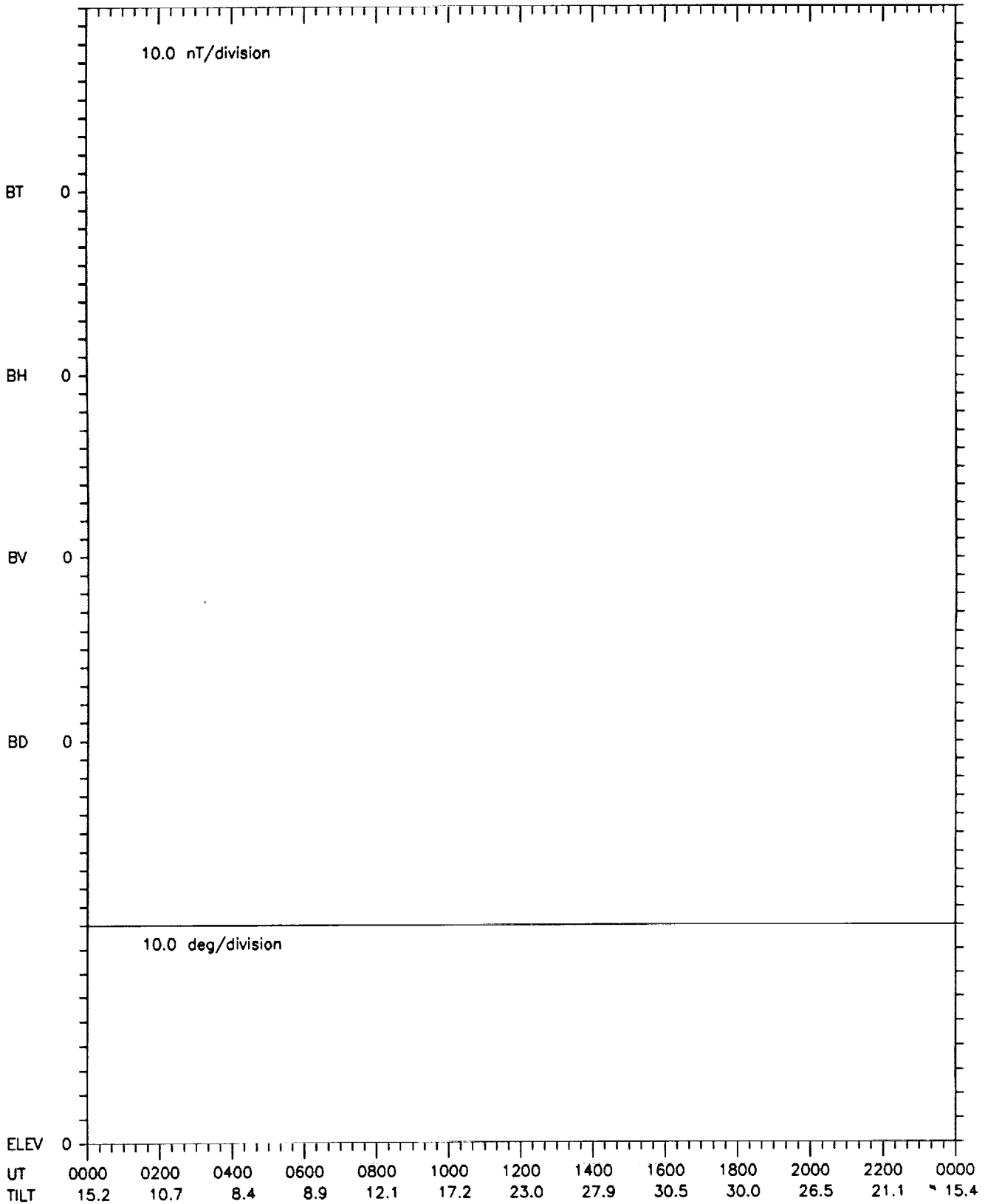


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY138 MAY 18

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

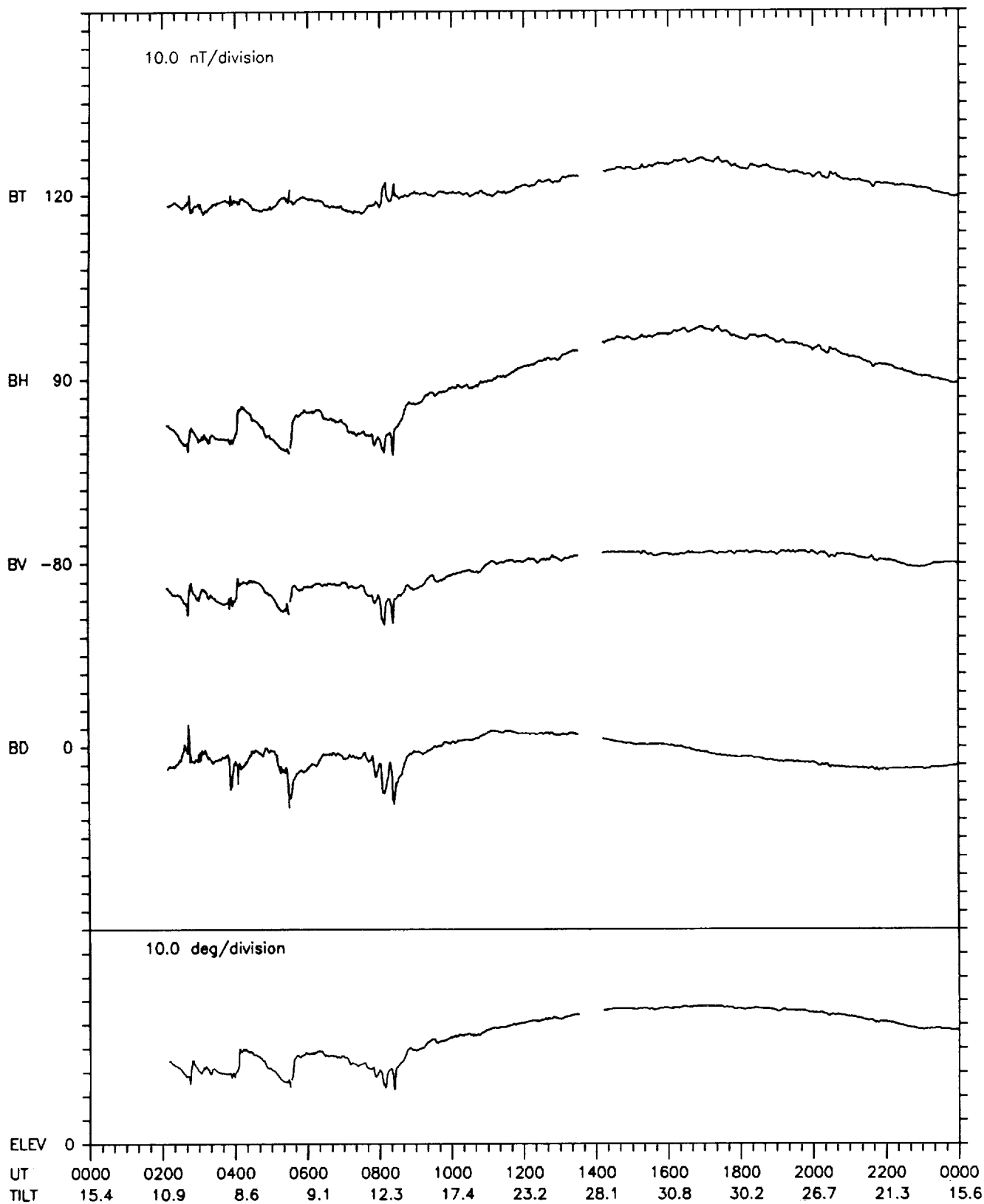


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY139 MAY 19

(GEOLON, MAGLAT) = ( -75.0, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

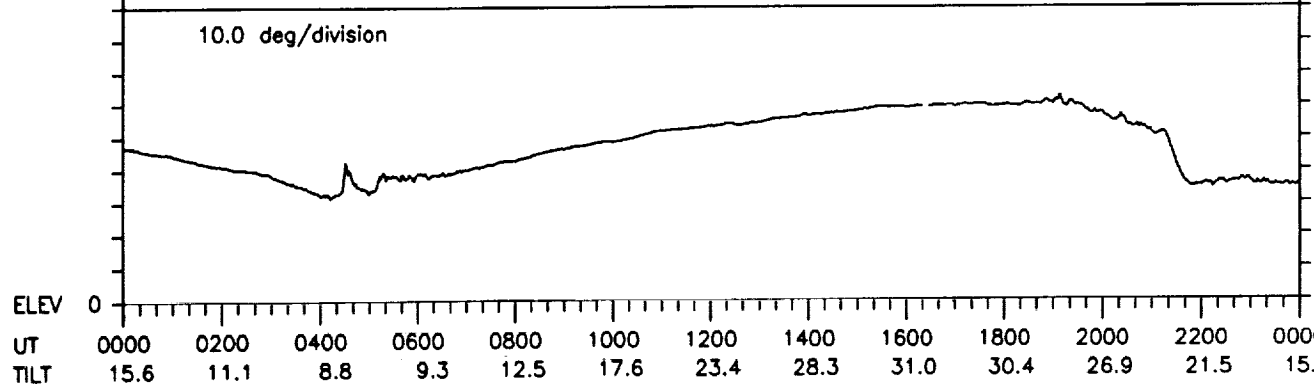
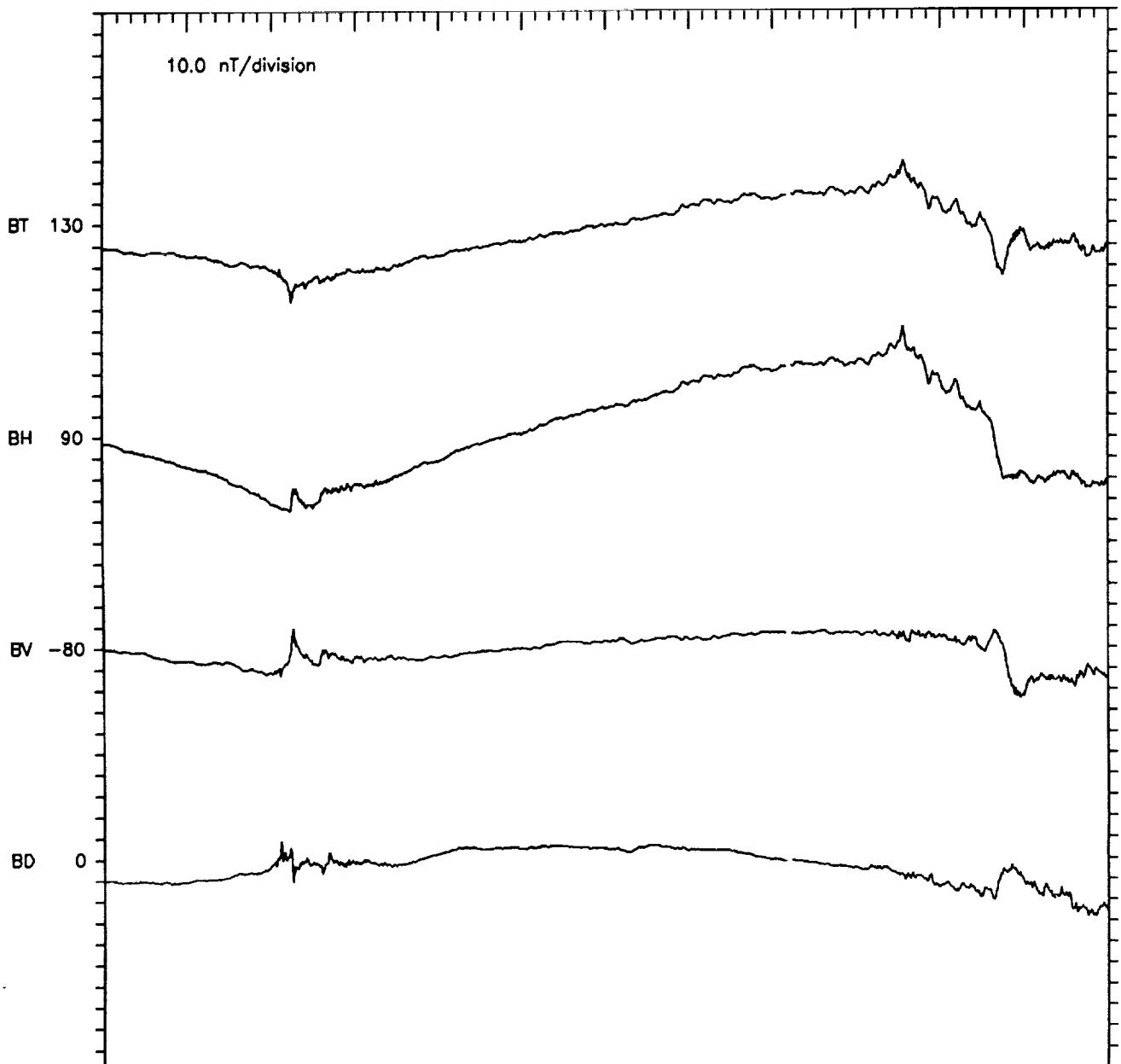


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY140 MAY 20

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

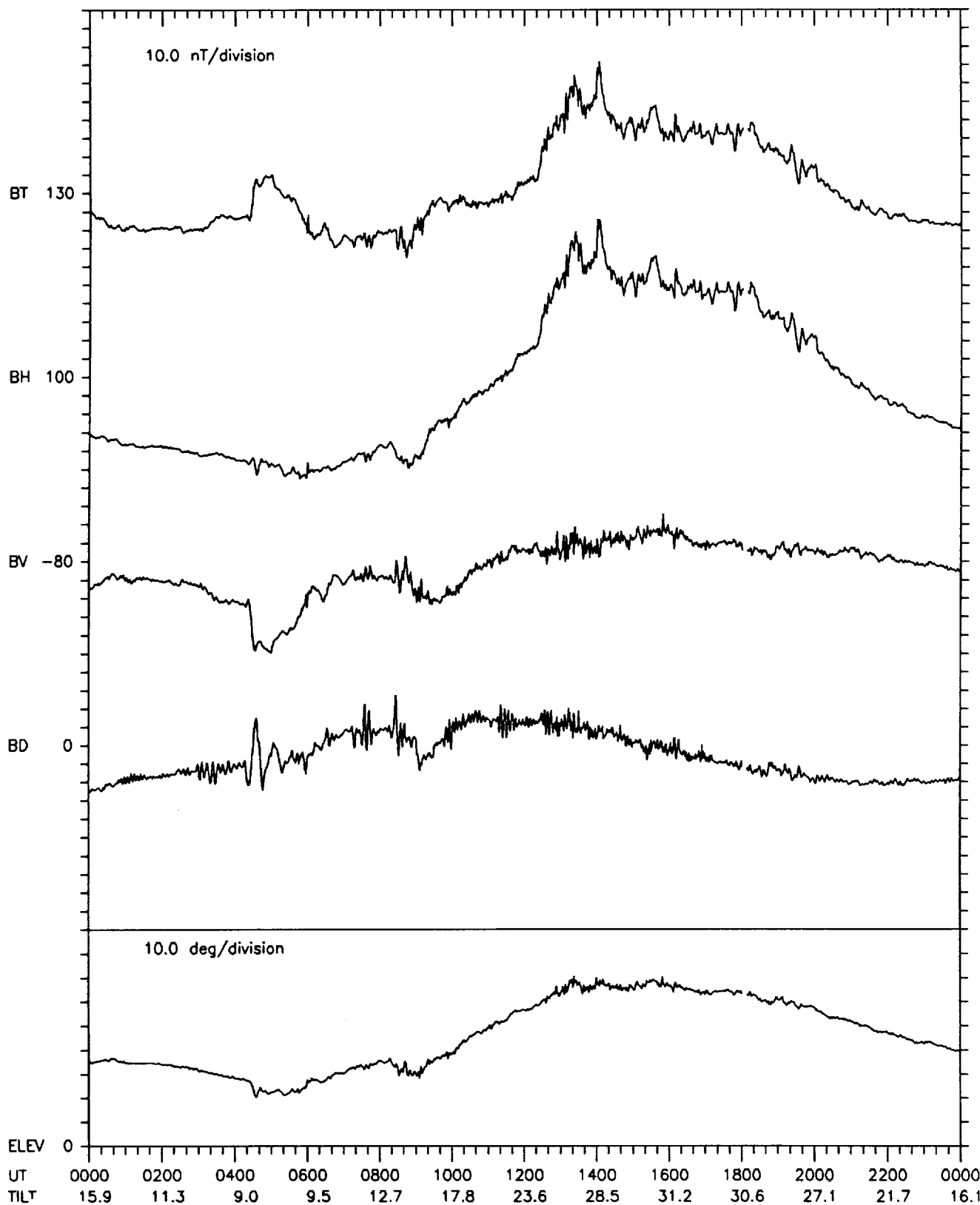


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY141 MAY 21

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

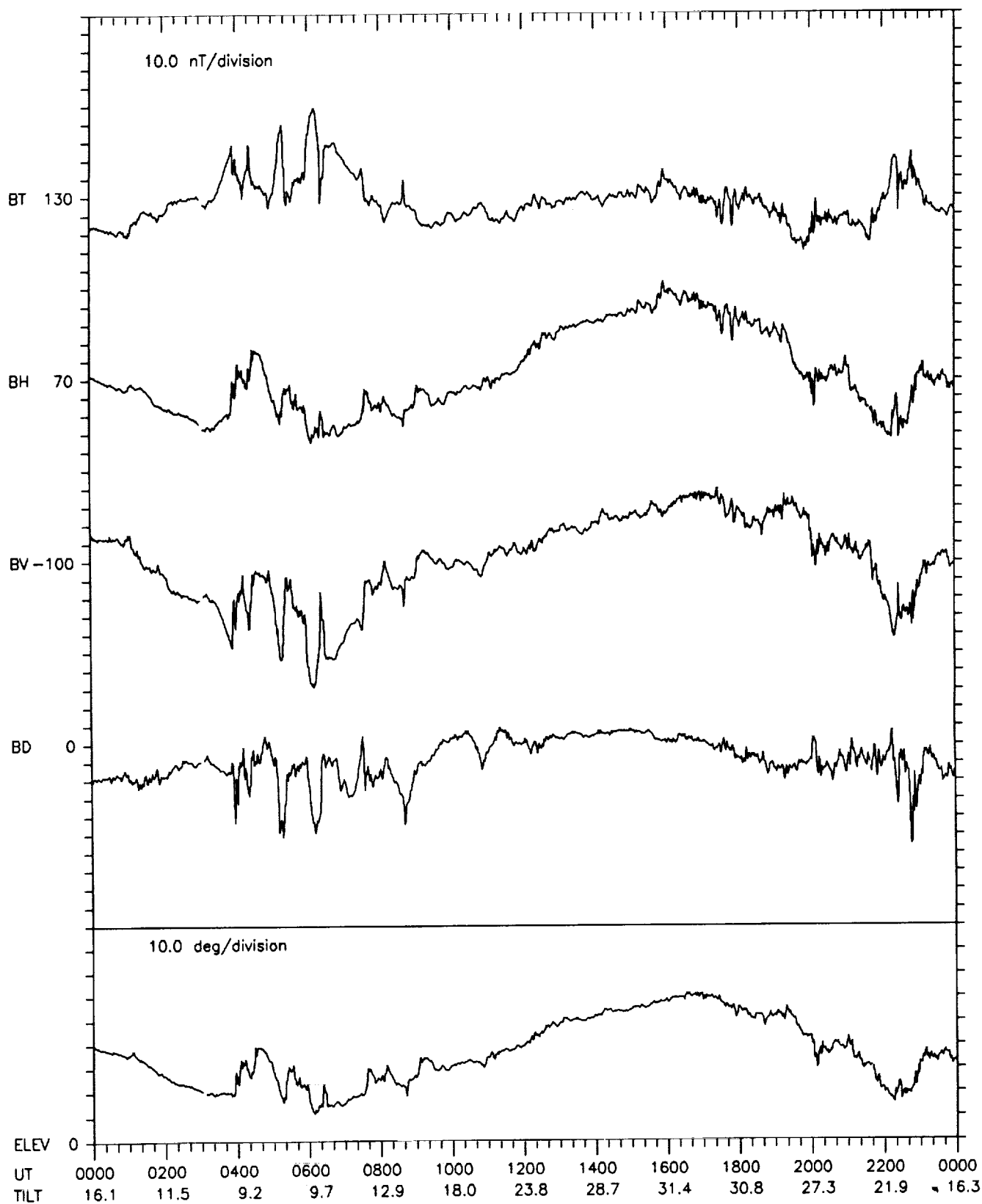


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY142 MAY 22

(GEOLON, MAGLAT) = ( -75.1, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

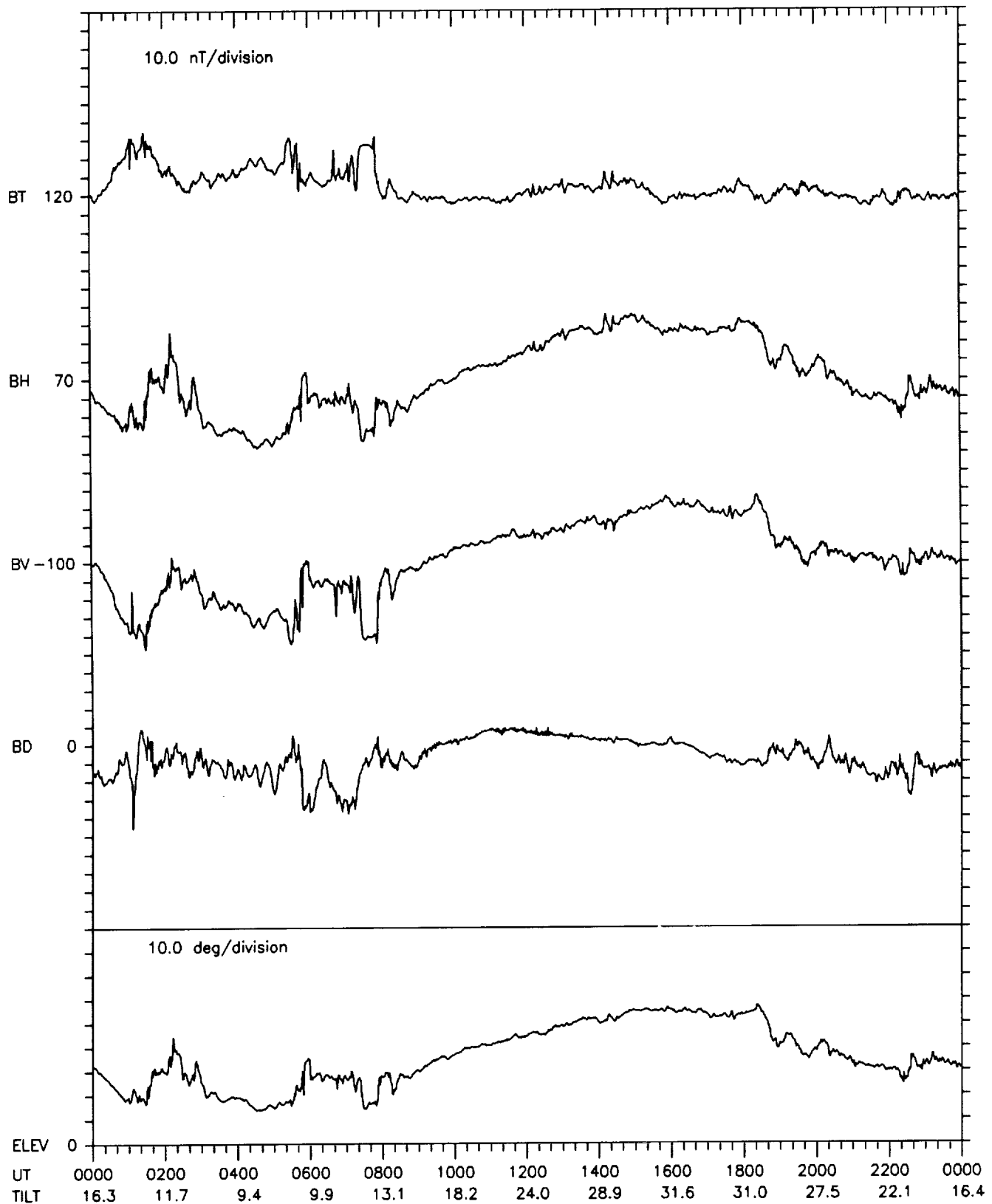


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY143 MAY 23

(GEOLON, MAGLAT) = ( -75.2, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

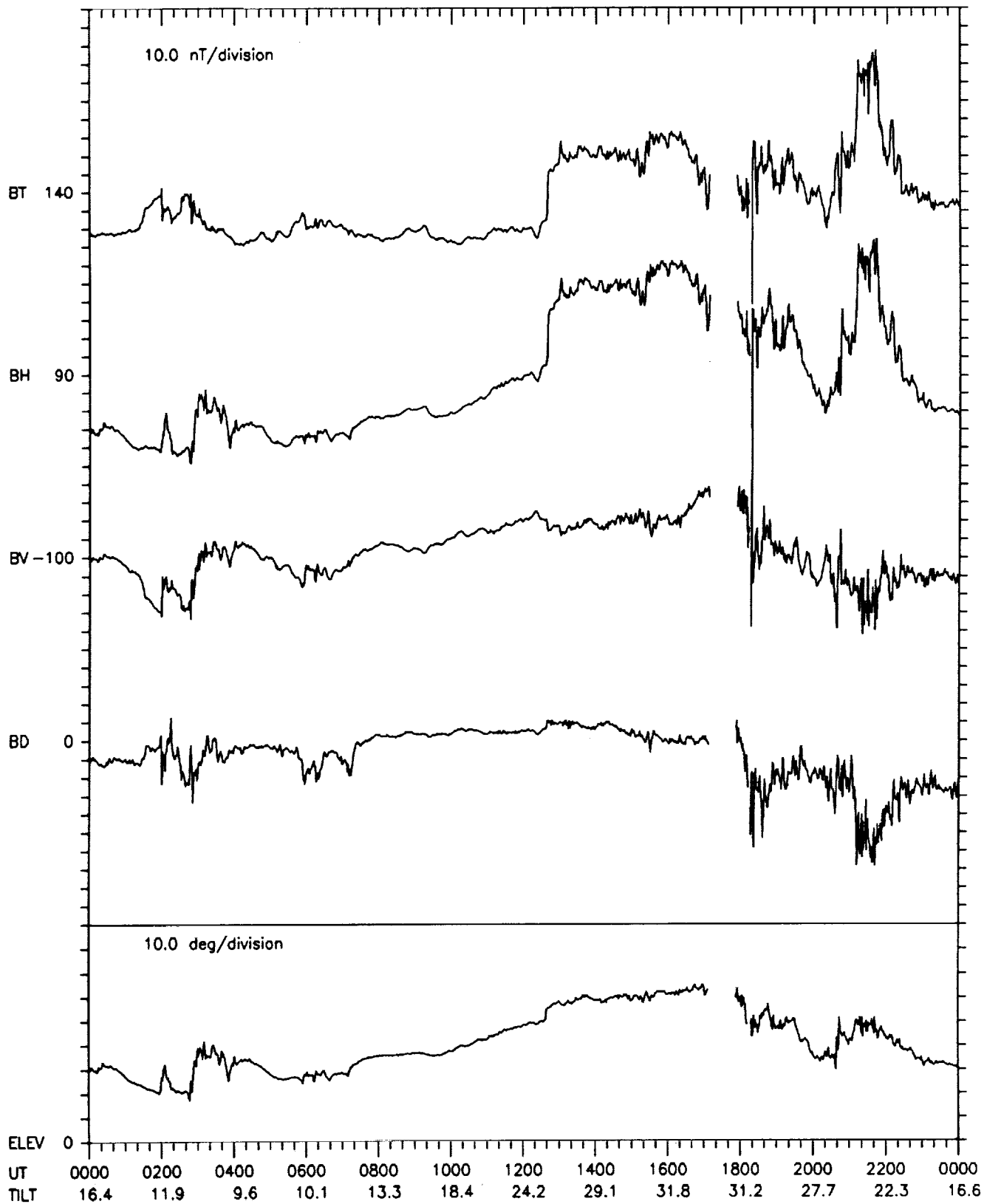


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY144 MAY 24

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



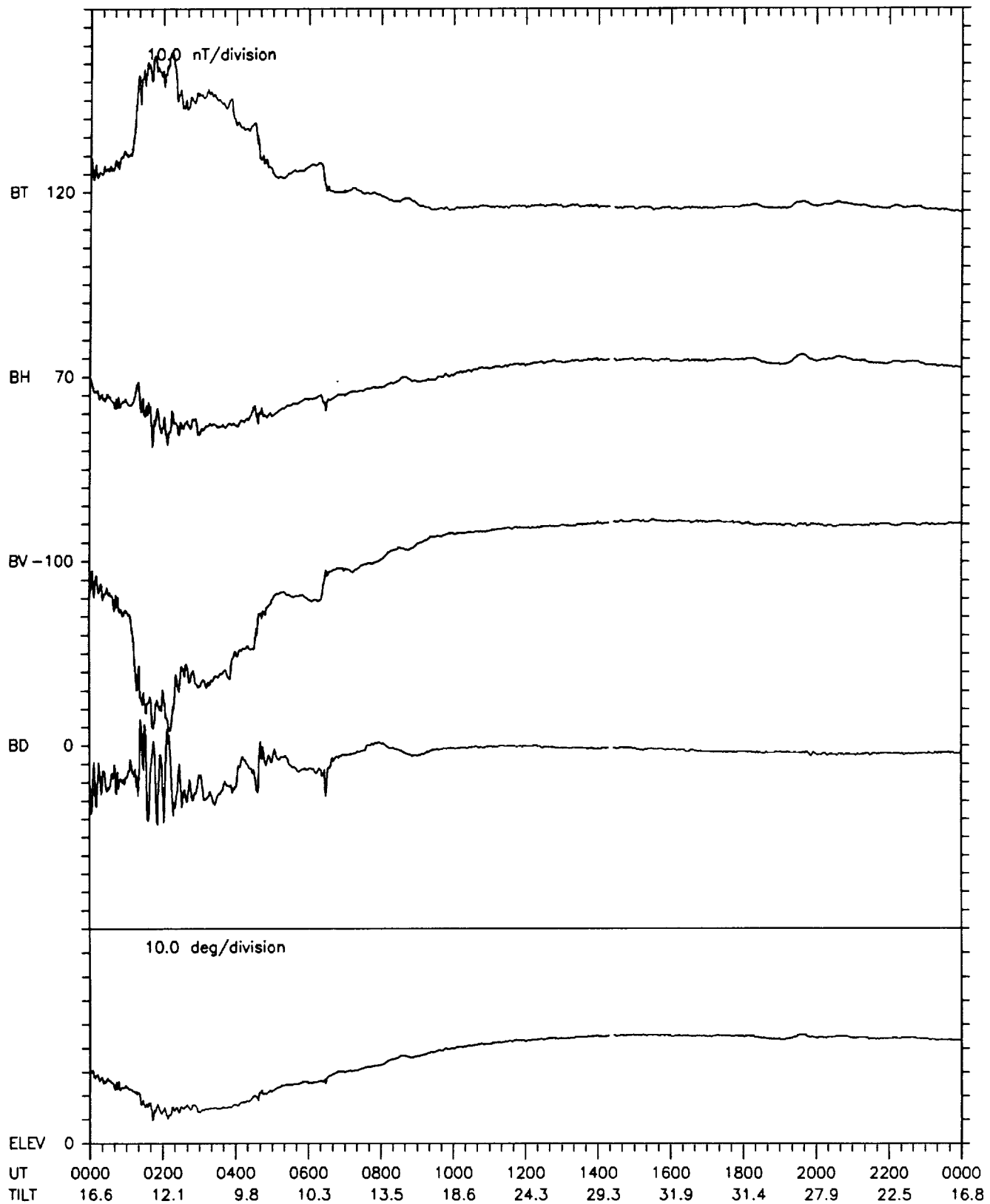


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY145 MAY 25

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

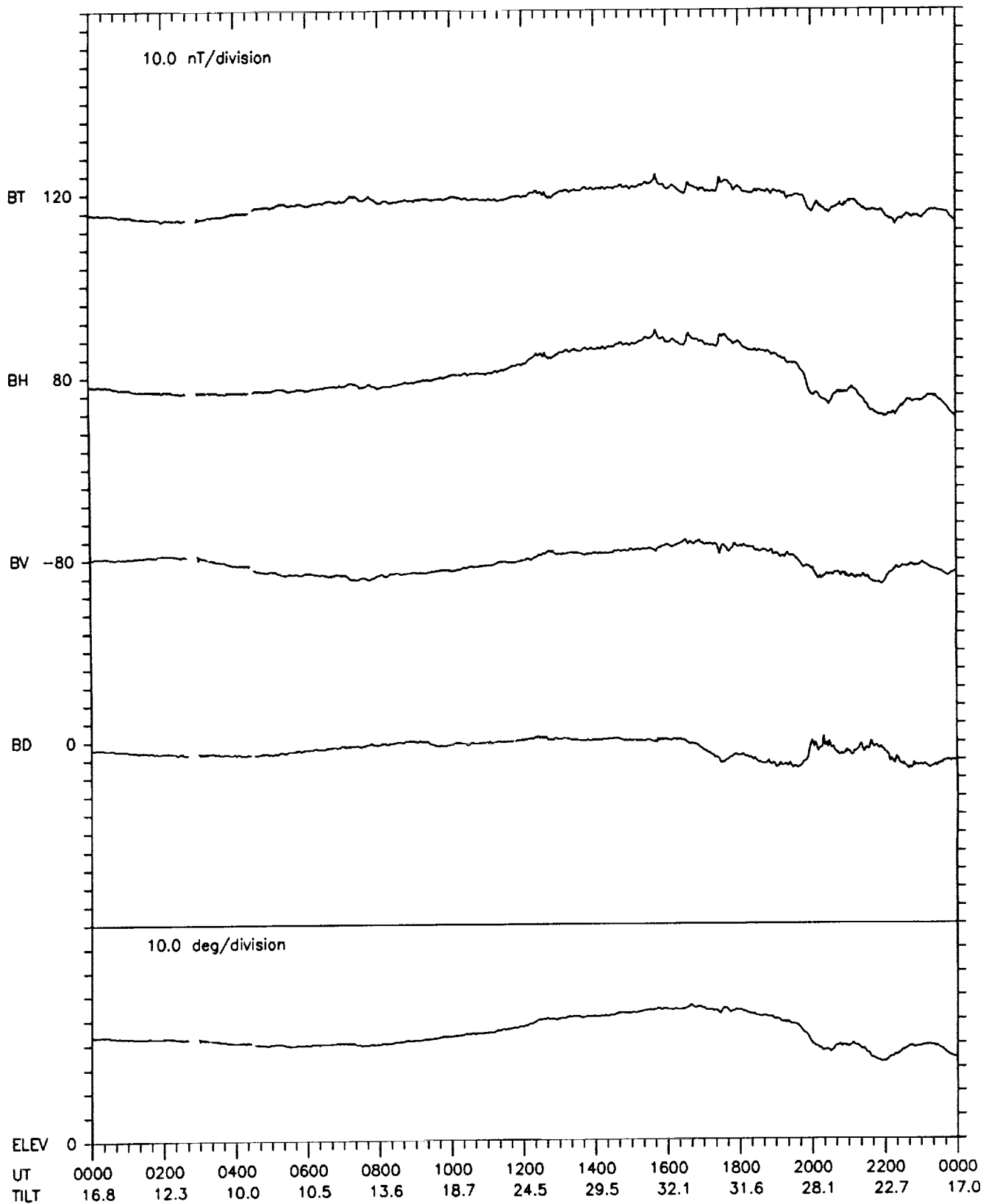
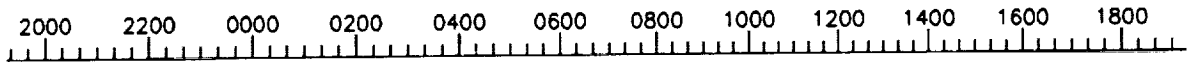


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY146 MAY 26

(GEOLON, MAGLAT) = ( -75.3, 11.2)

MLT 5

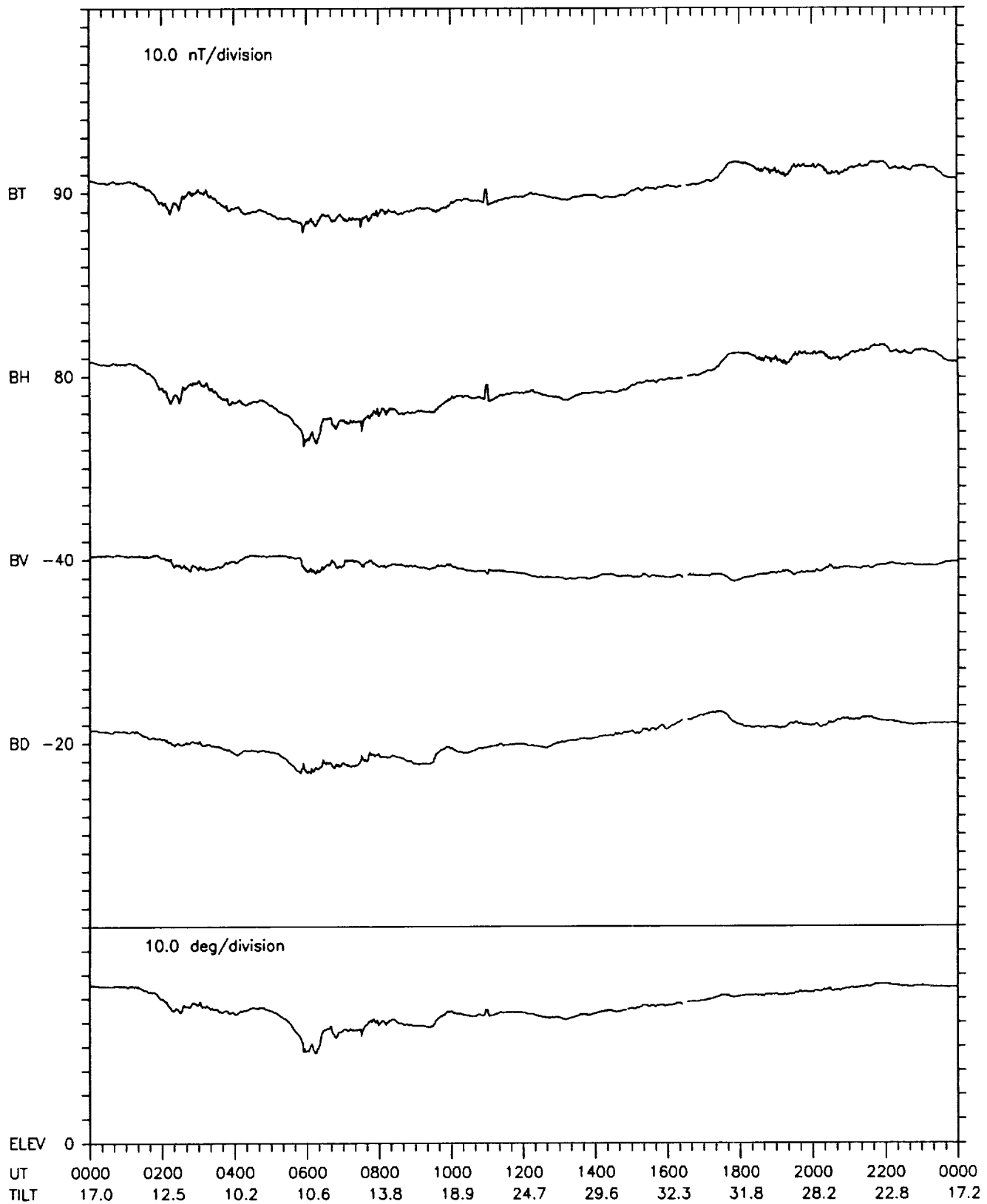


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY147 MAY 27

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

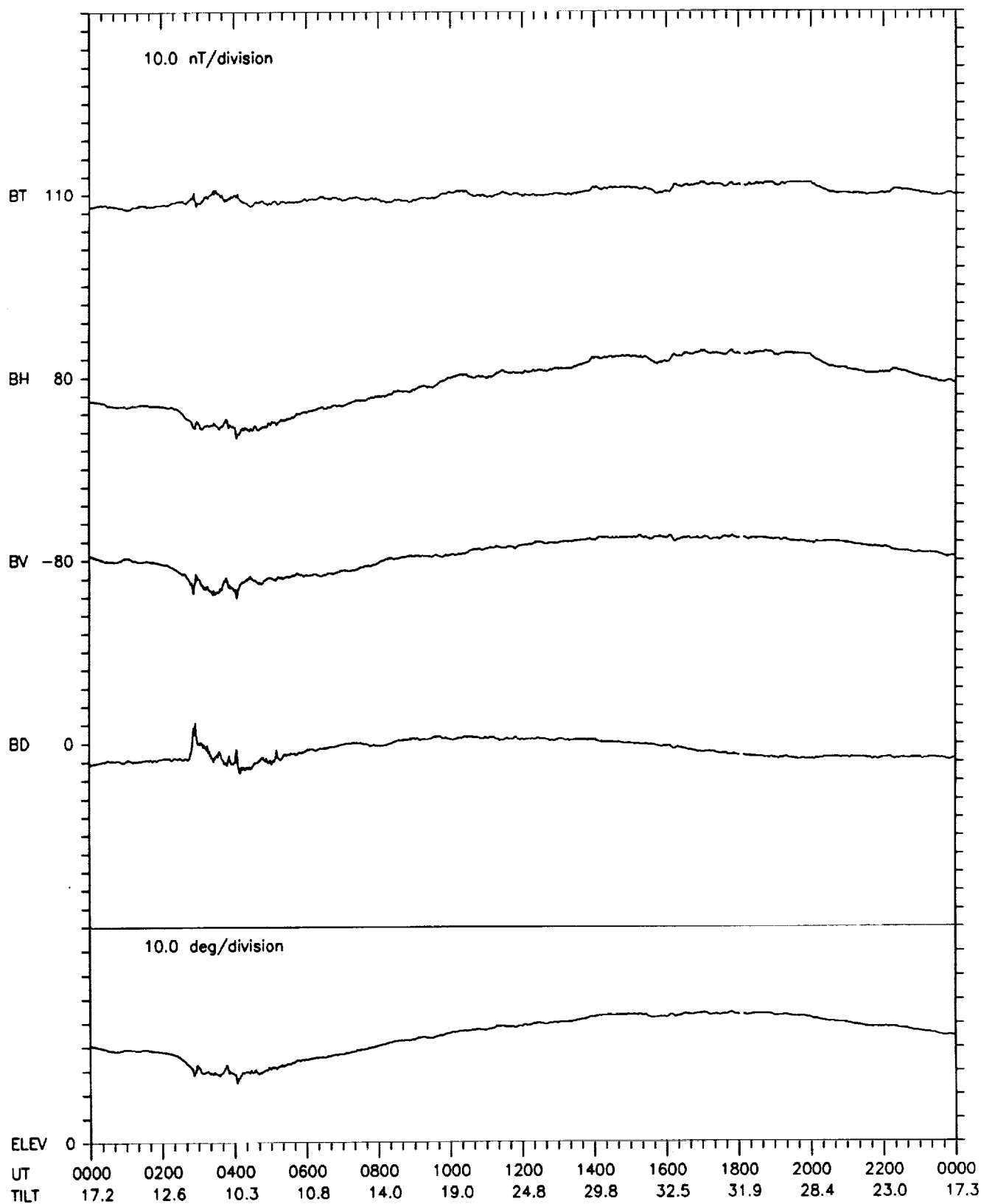
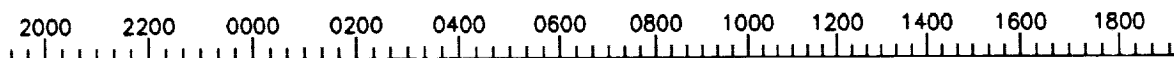


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY148 MAY 28

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5

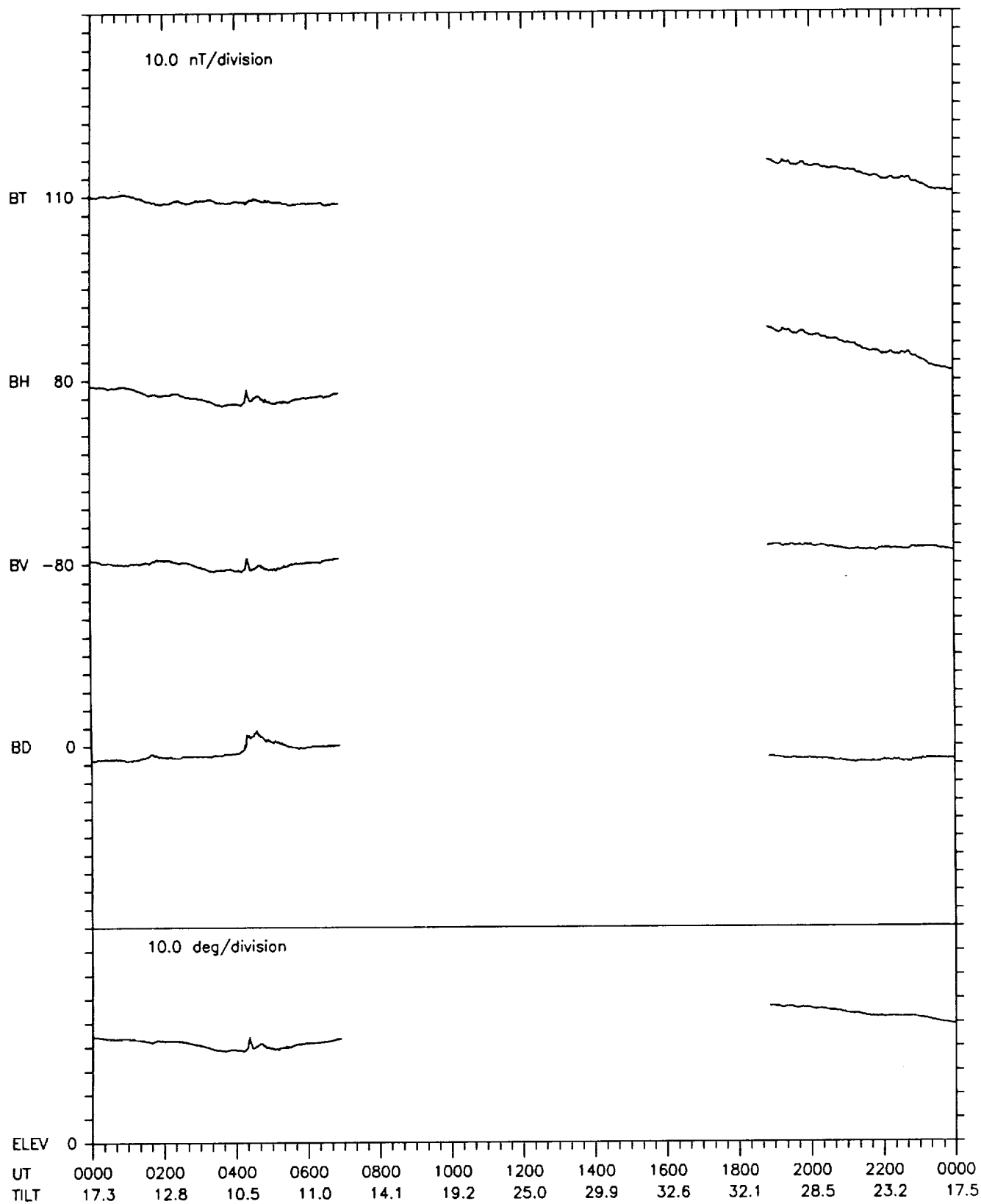


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY149 MAY 29

(GEOLON, MAGLAT) = ( -75.4, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

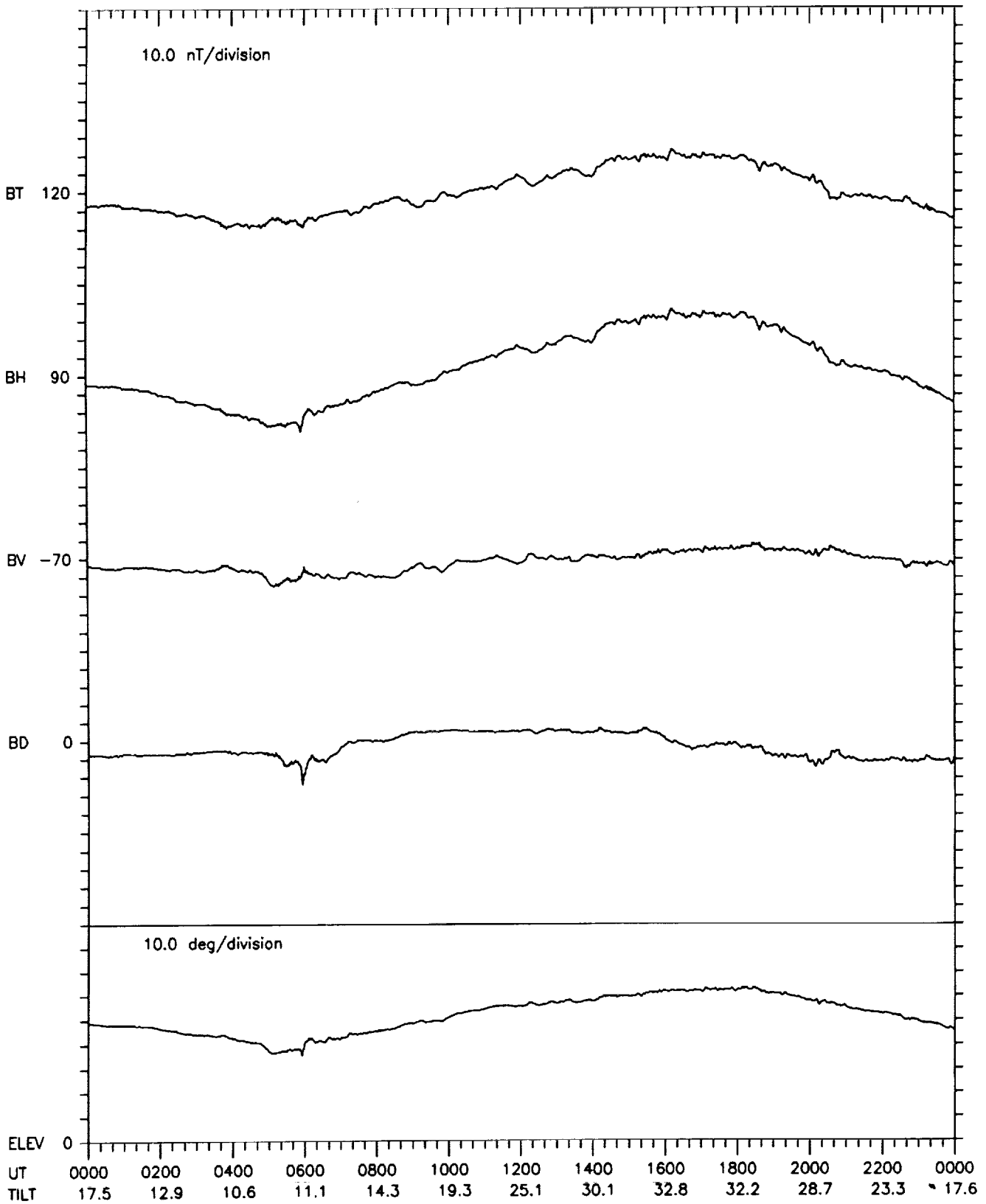
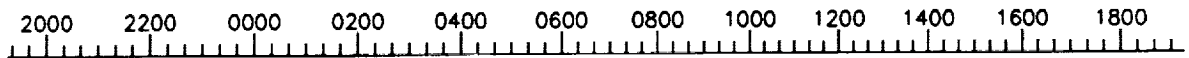


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY150 MAY 30

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5

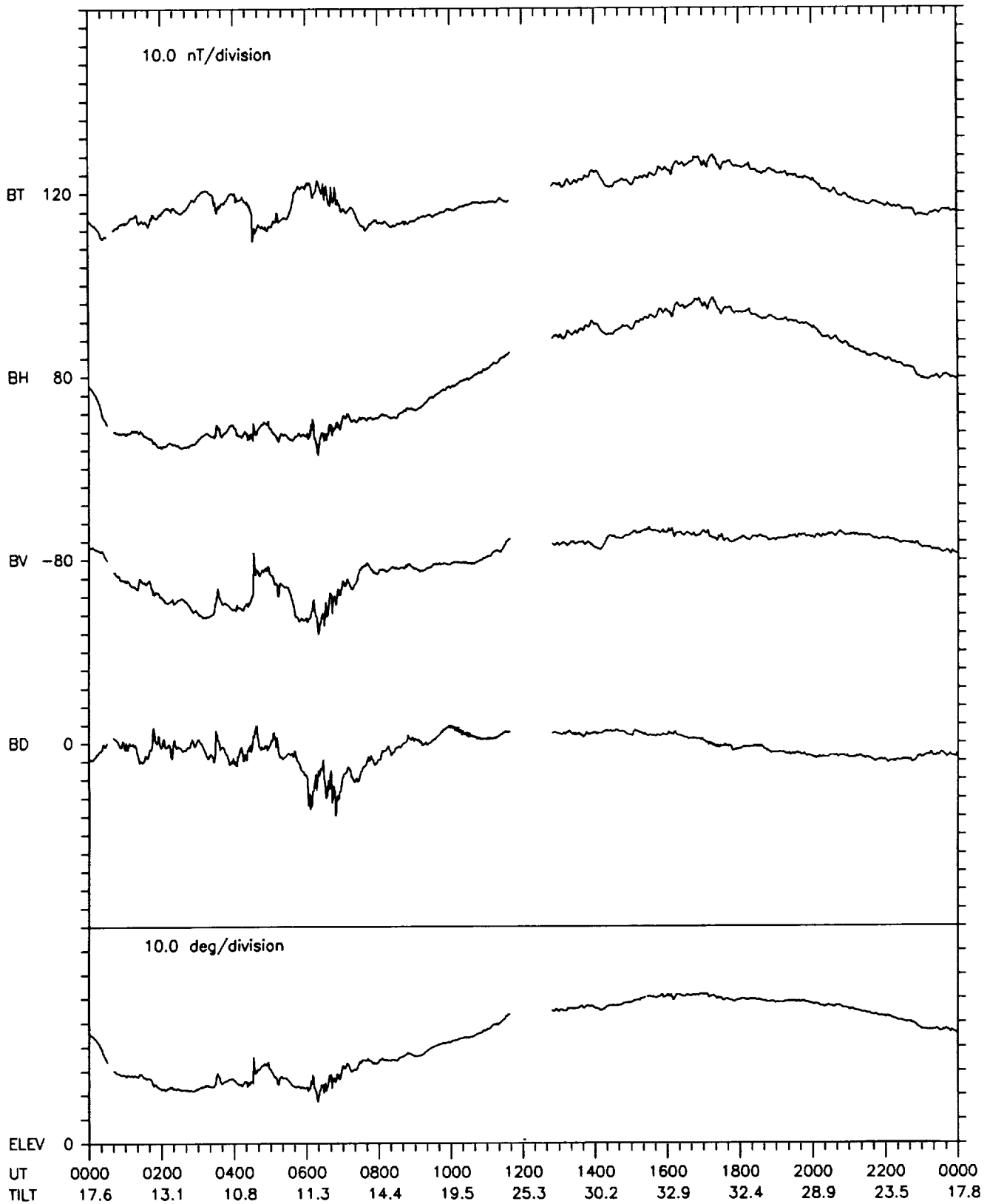


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

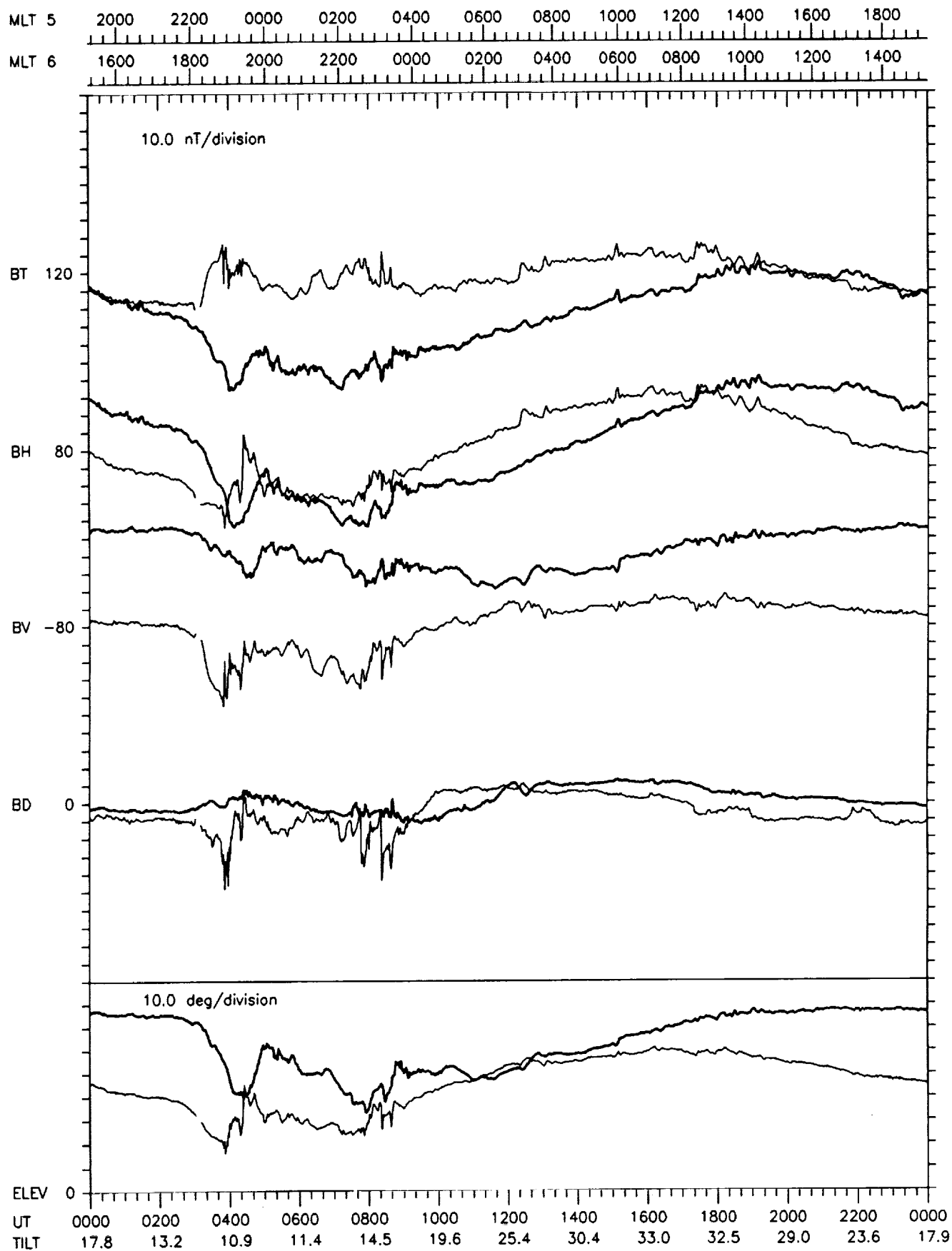
1983 DAY151 MAY 31

(GEOLON, MAGLAT) = ( -75.5, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800

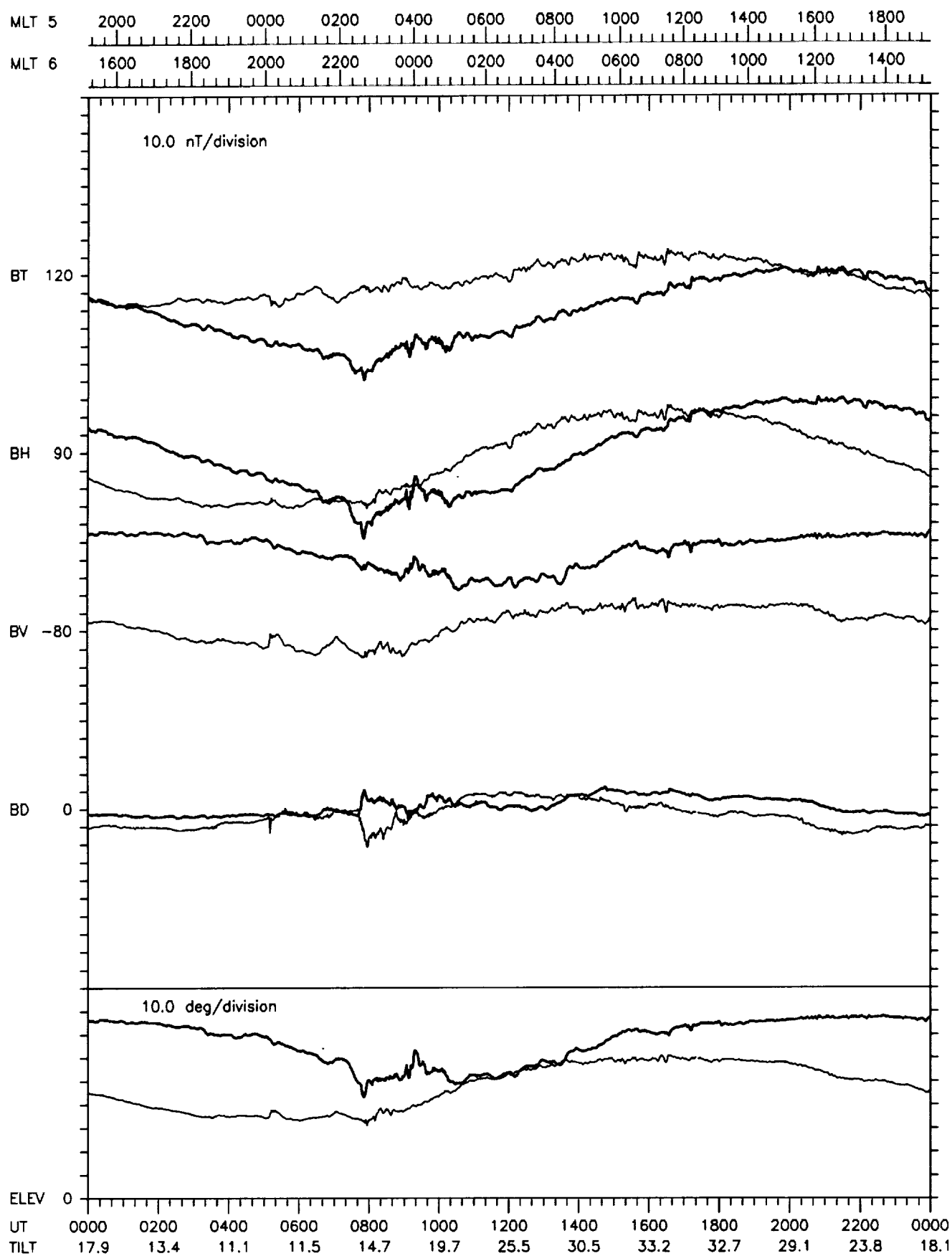


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY152 JUN 1  
 GEOLON, MAGLAT = 5( -75.6, 11.2) 6(-135.4, 4.8)

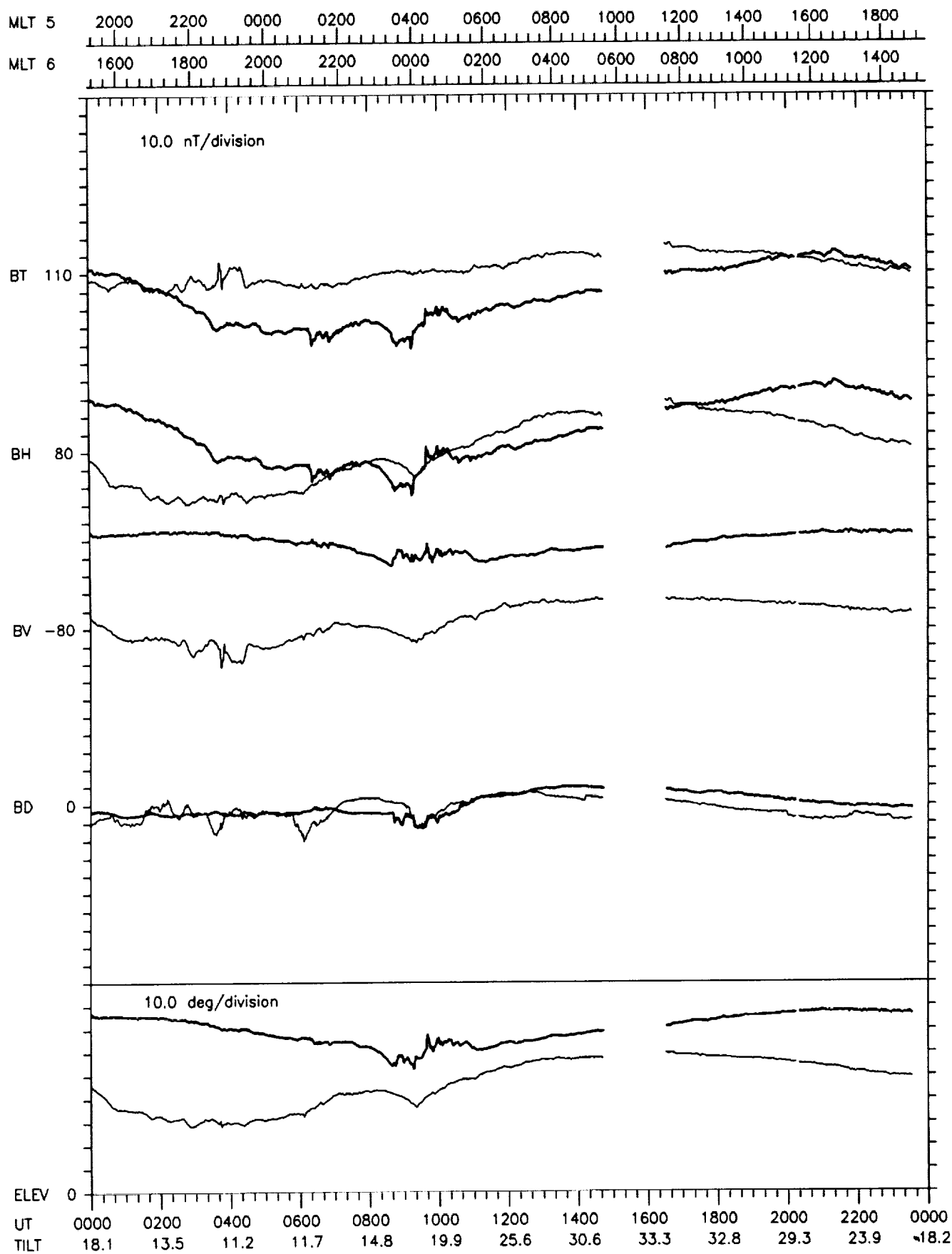




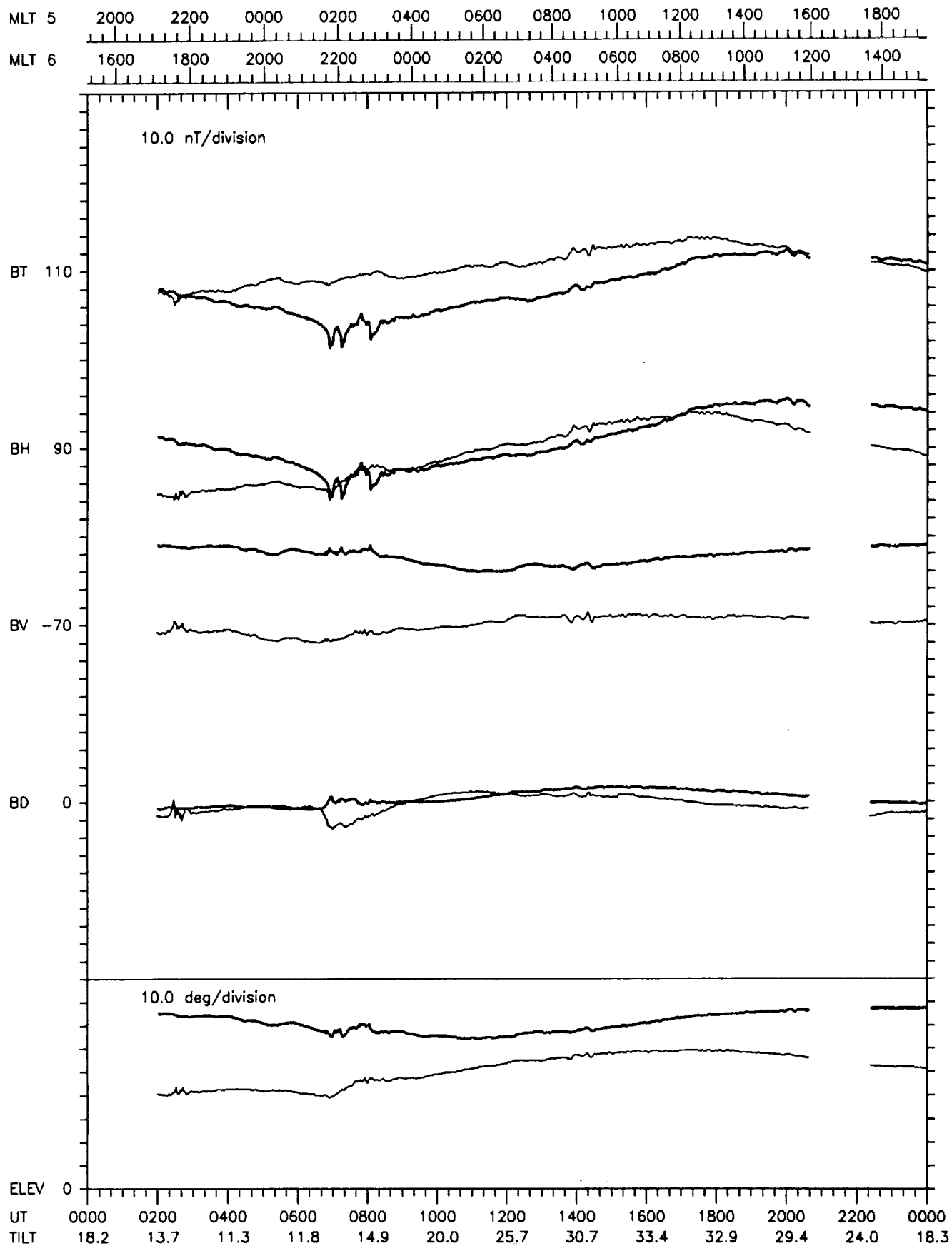
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY153 JUN 2  
 GEOLON, MAGLAT = 5( -75.7, 11.2) 6(-135.4, 4.8)



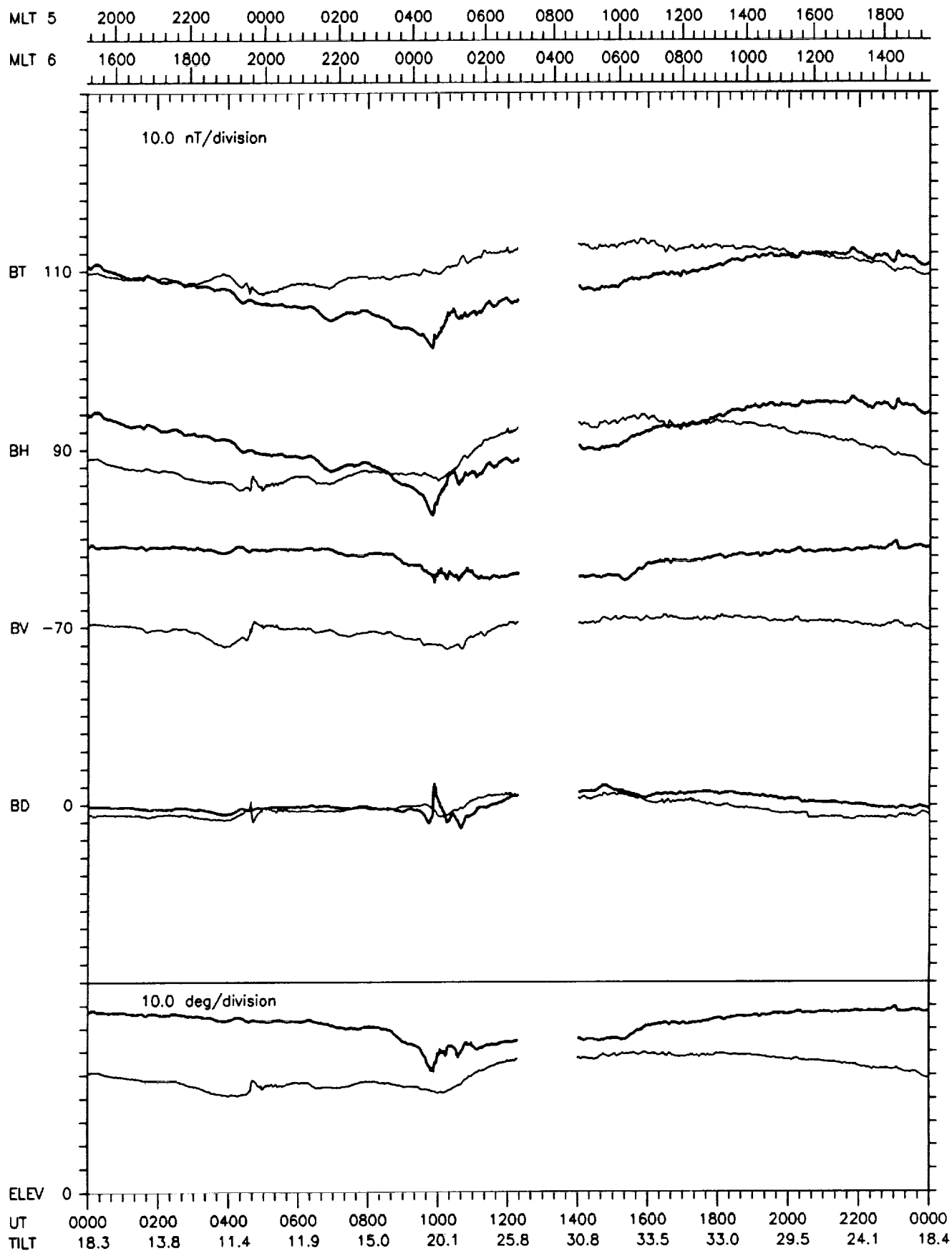
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY154 JUN 3  
 GEOLON, MAGLAT = 5( -75.6, 11.2) 6(-135.4, 4.8)



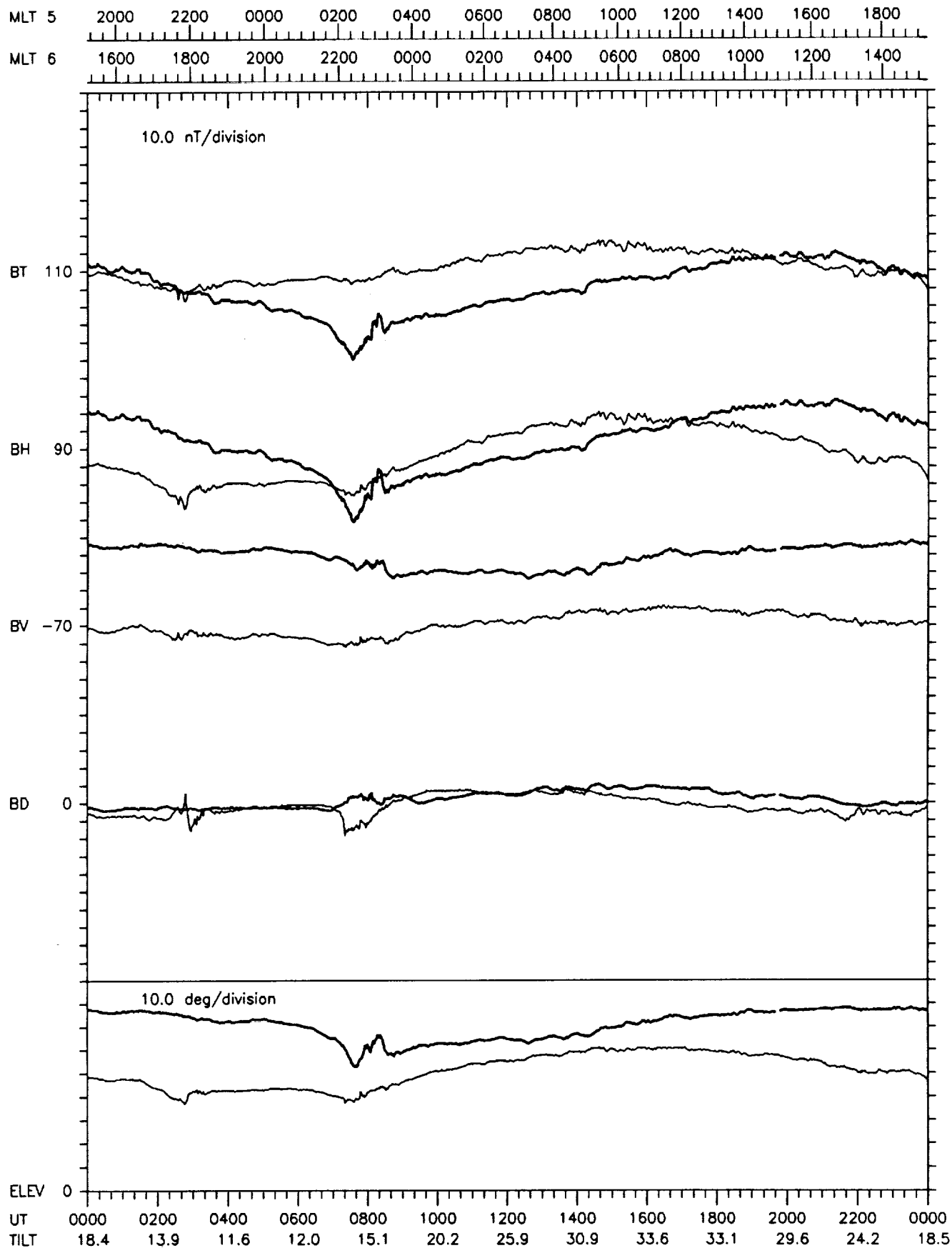
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY155 JUN 4  
 GEOLON, MAGLAT = 5( -75.6, 11.2) 6(-135.4, 4.8)



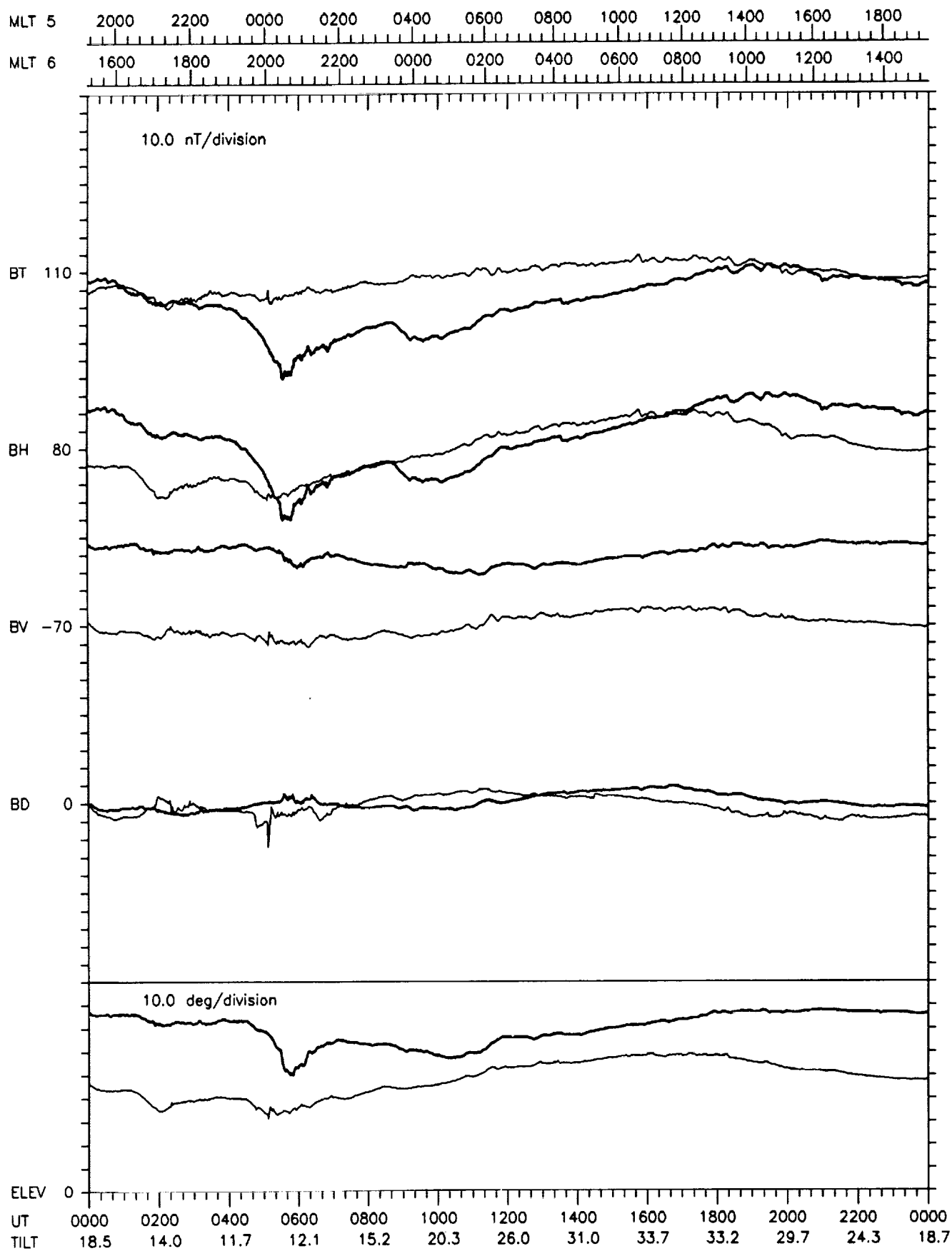
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY156 JUN 5  
 GEOLON, MAGLAT = 5( -75.5, 11.2) 6(-135.4, 4.8)



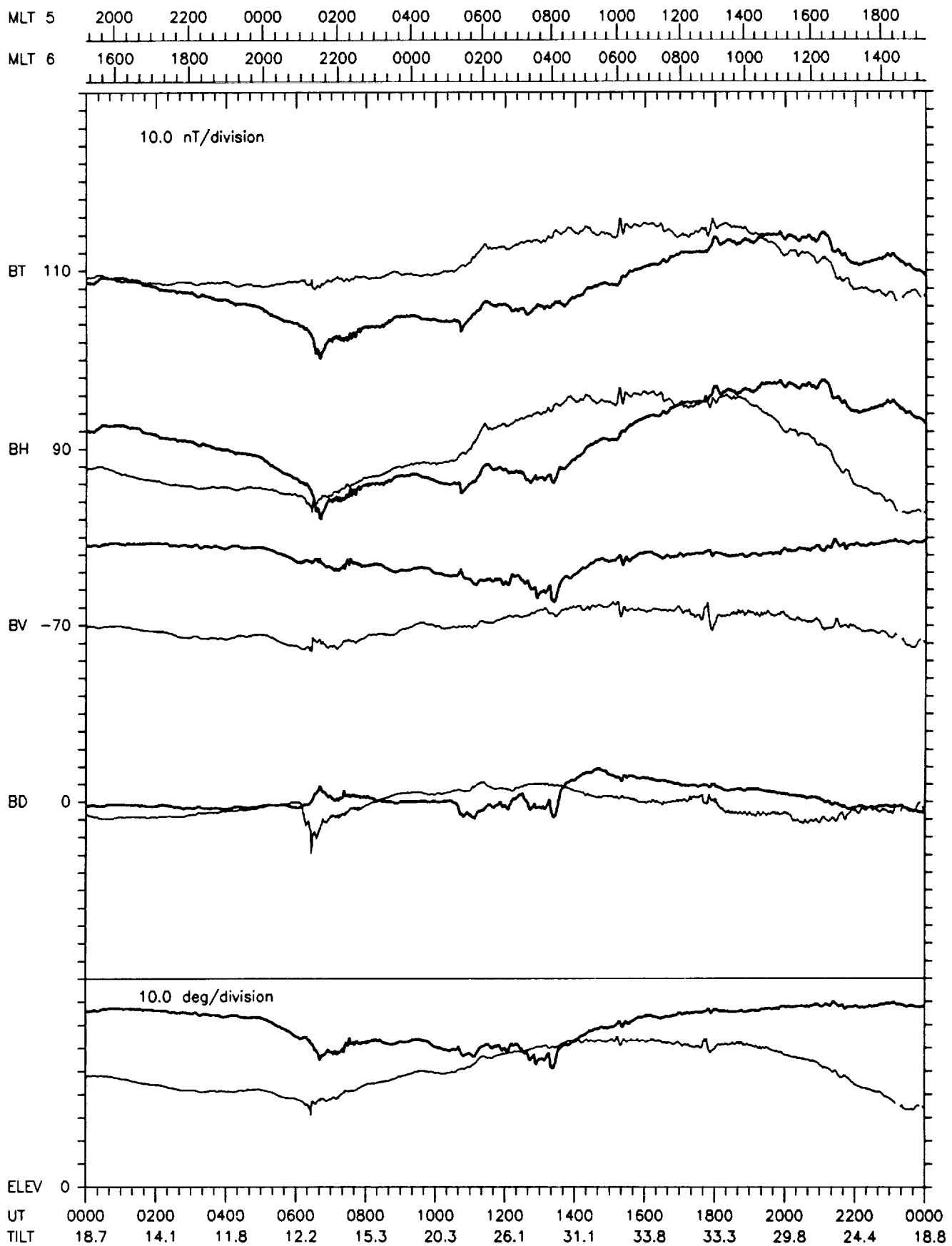
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY157 JUN 6  
 GEOLON, MAGLAT = 5( -75.5, 11.2) 6(-135.4, 4.8)



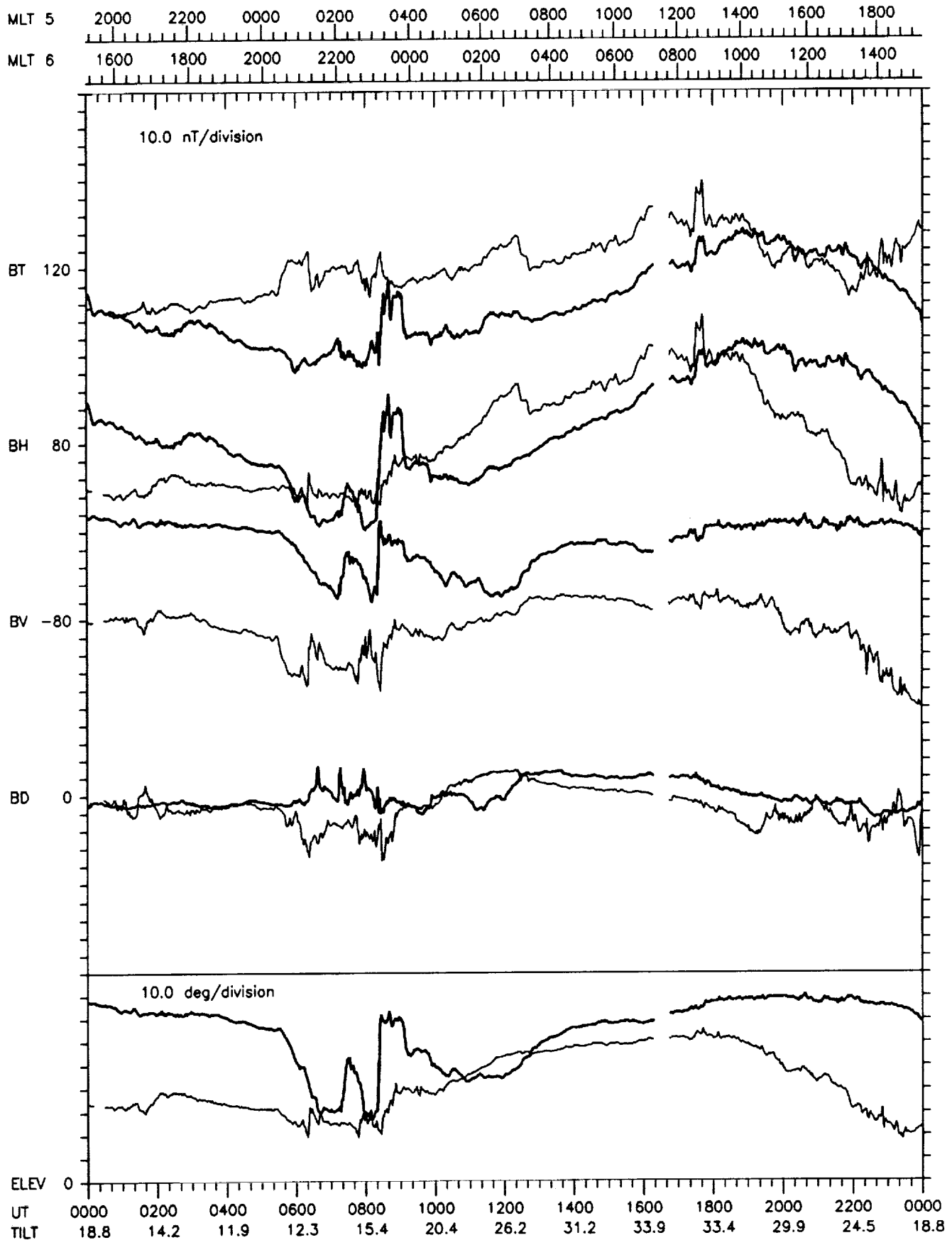
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY158 JUN 7  
 GEOLON, MAGLAT = 5( -75.4, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY159 JUN 8  
 GEOLON, MAGLAT = 5( -75.4, 11.2) 6(-135.4, 4.8)

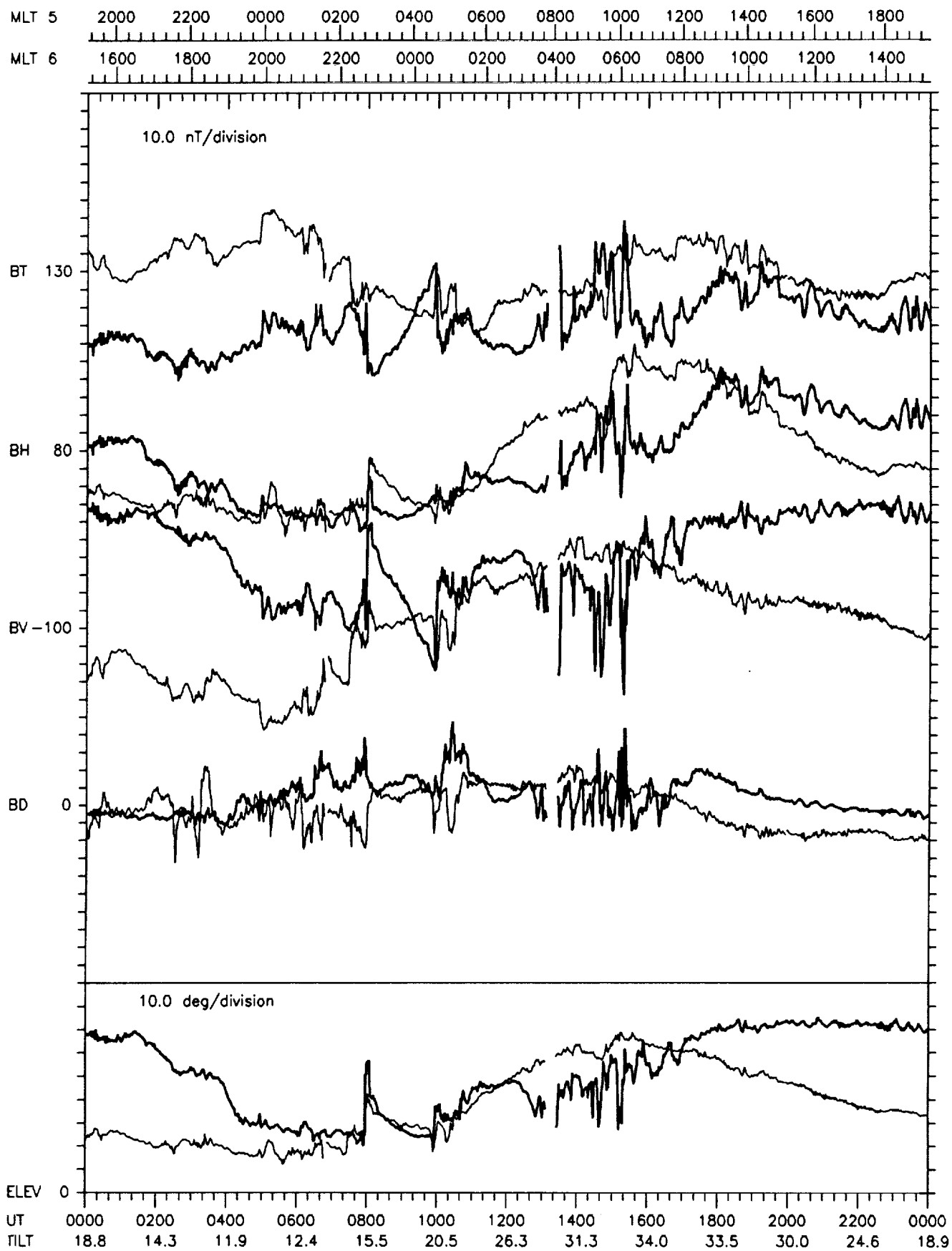


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY160 JUN 9  
 GEOLON, MAGLAT = 5( -75.3, 11.2) 6(-135.4, 4.8)

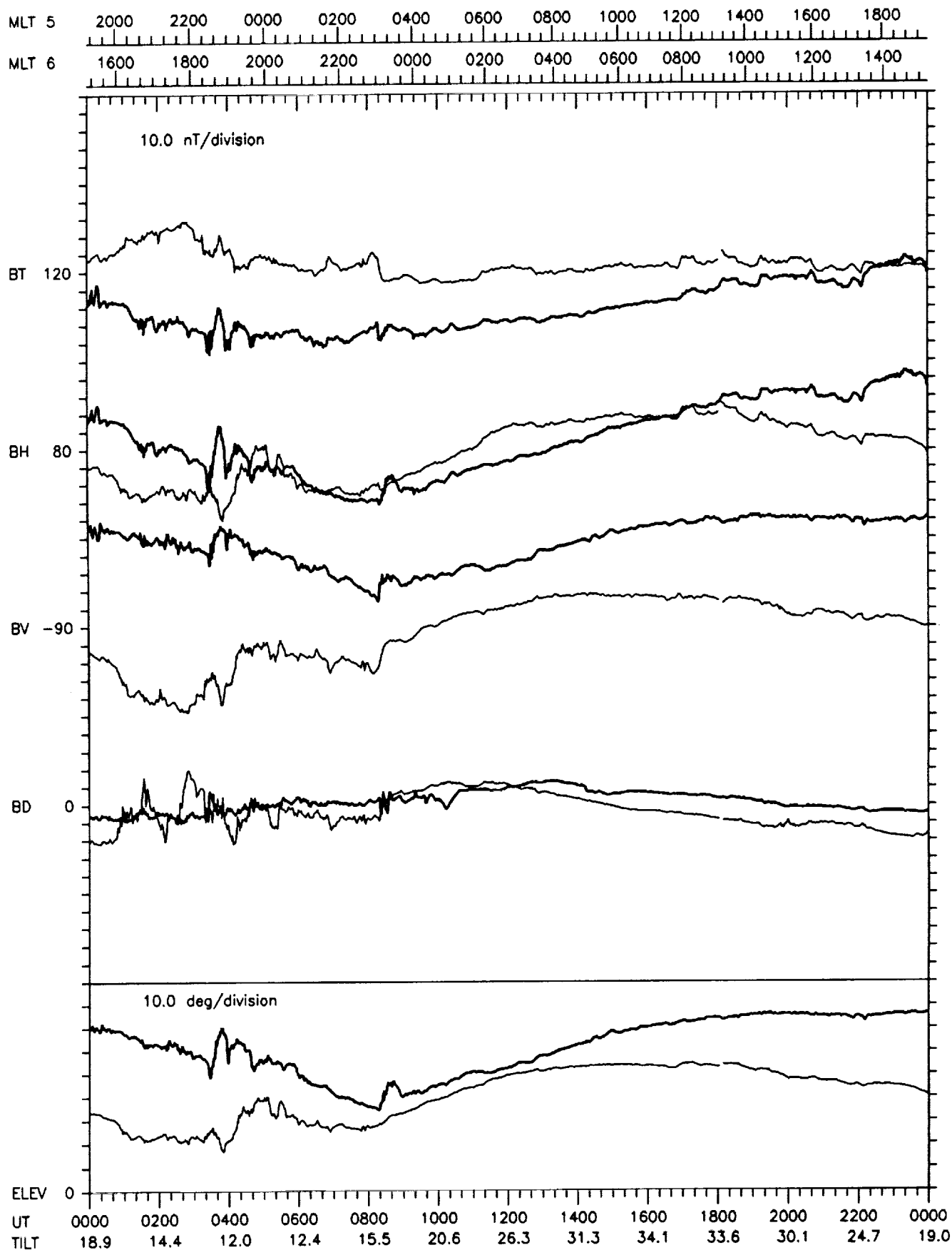




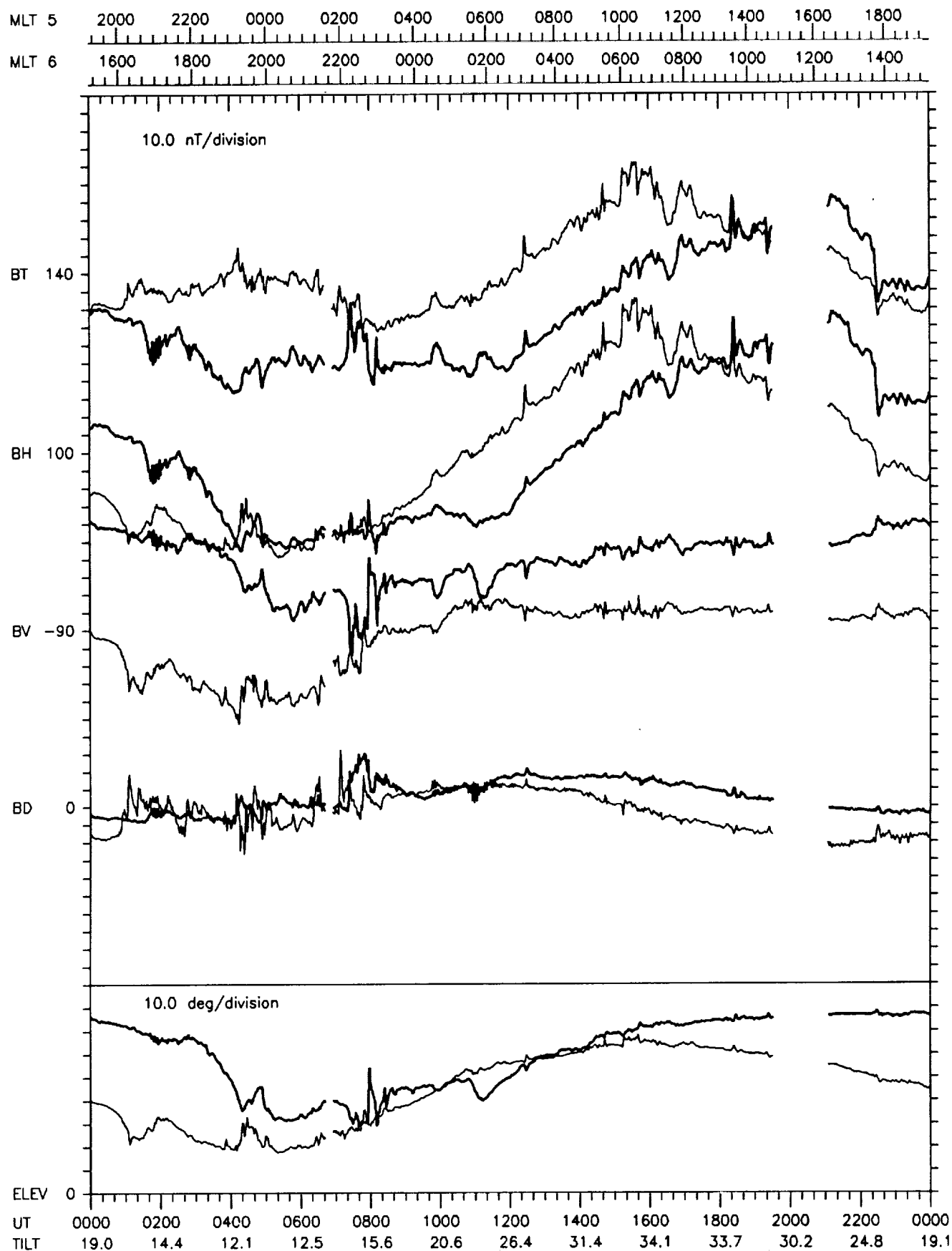
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY161 JUN 10  
 GEOLON, MAGLAT = 5( -75.3, 11.2) 6(-135.4, 4.8)



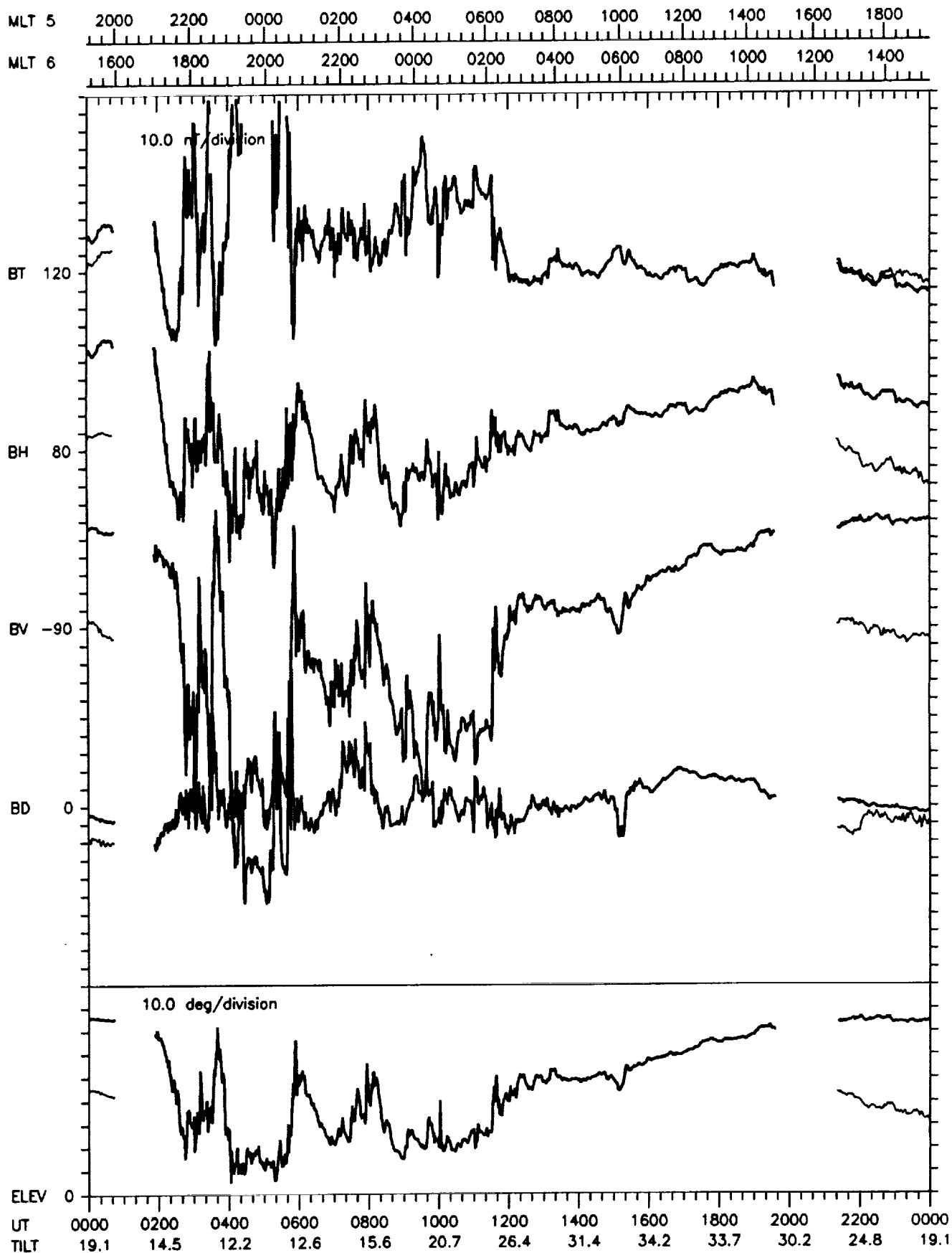
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY162 JUN 11  
 GEOLON, MAGLAT = 5( -75.3, 11.2) 6(-135.4, 4.8)



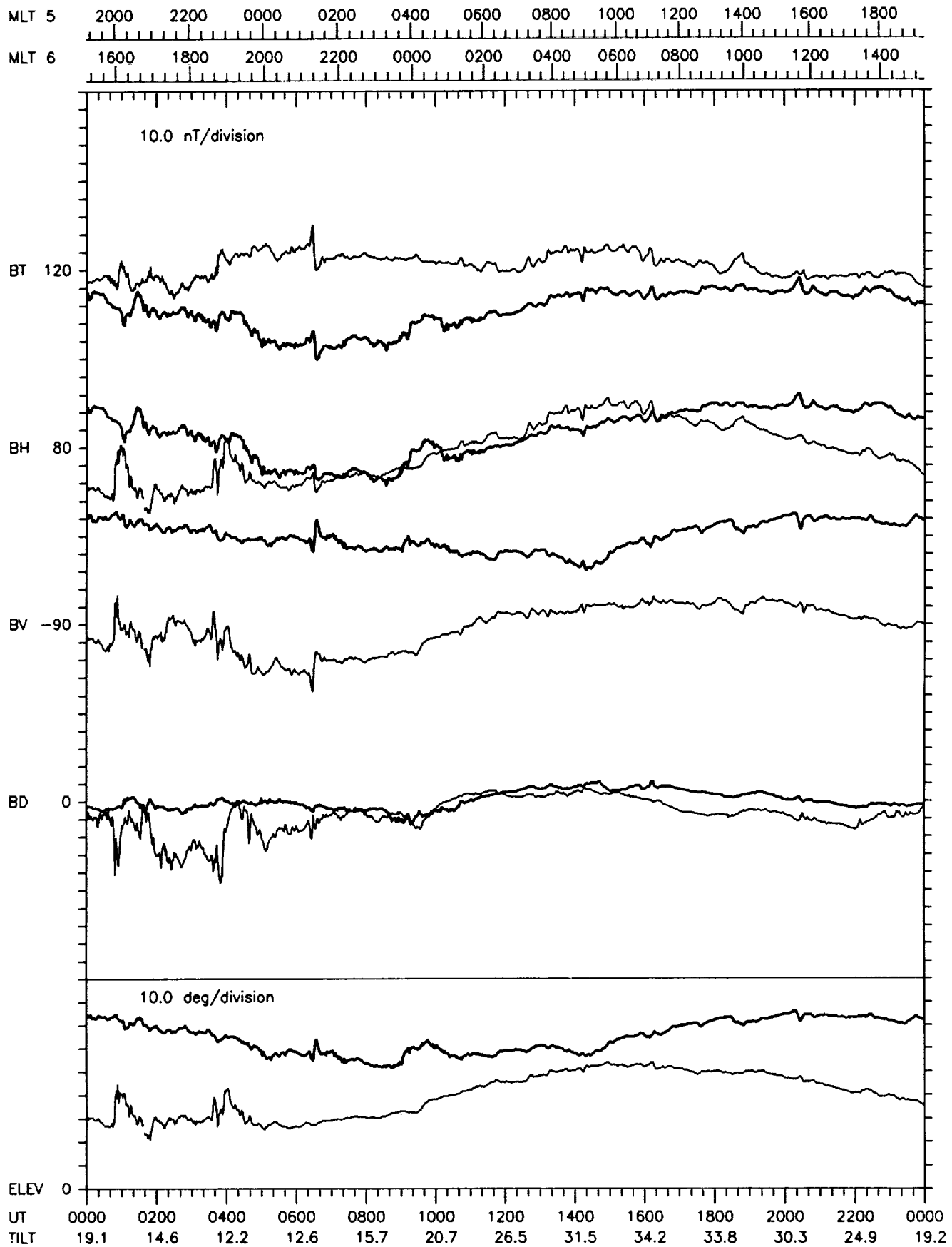
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY163 JUN 12  
 GEOLON, MAGLAT = 5( -75.2, 11.2) 6(-135.4, 4.8)



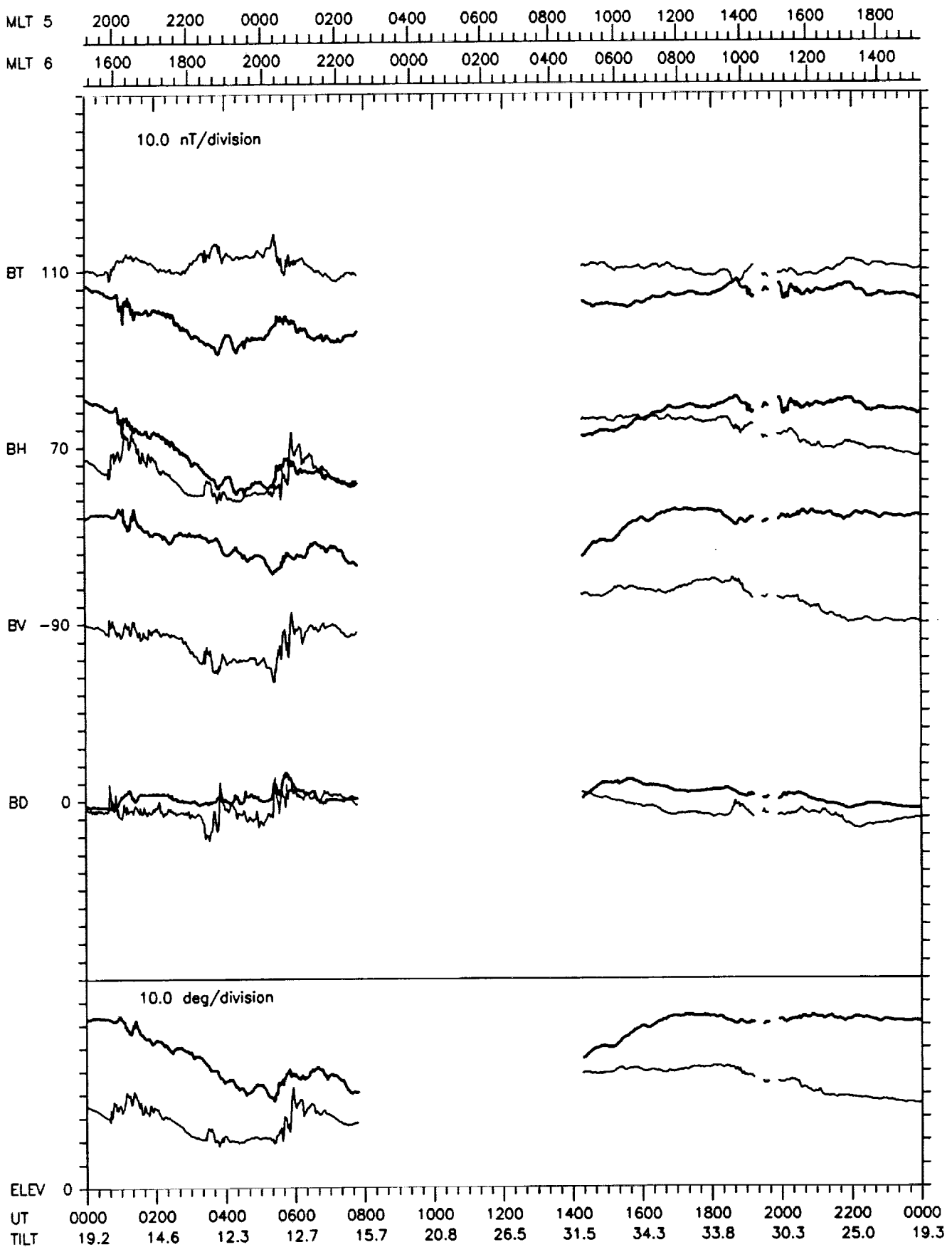
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY164 JUN 13  
 GEOLON, MAGLAT = 5( -75.2, 11.2) 6(-135.4, 4.8)



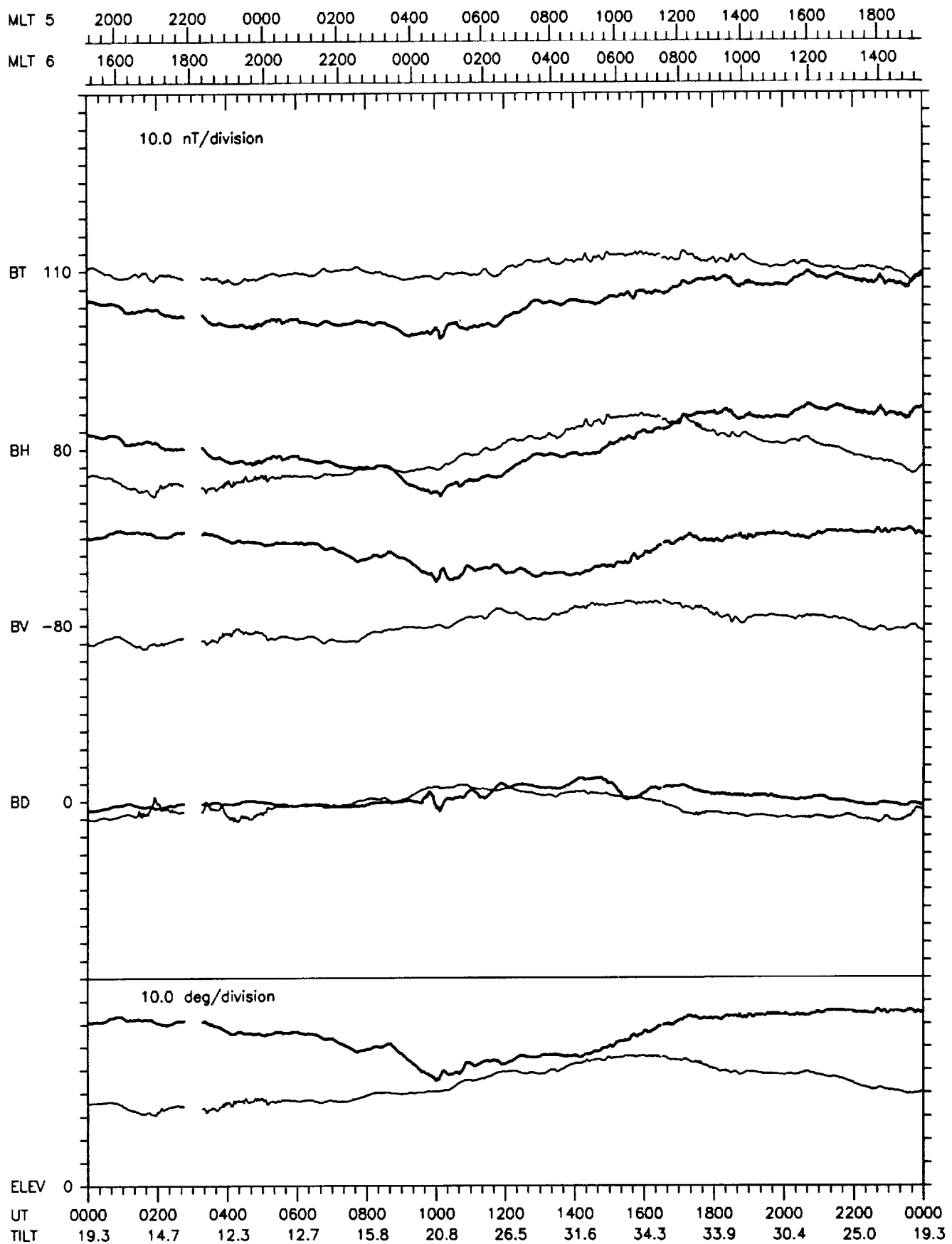
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY165 JUN 14  
 GEOLON, MAGLAT = 5( -75.2, 11.2) 6(-135.4, 4.8)



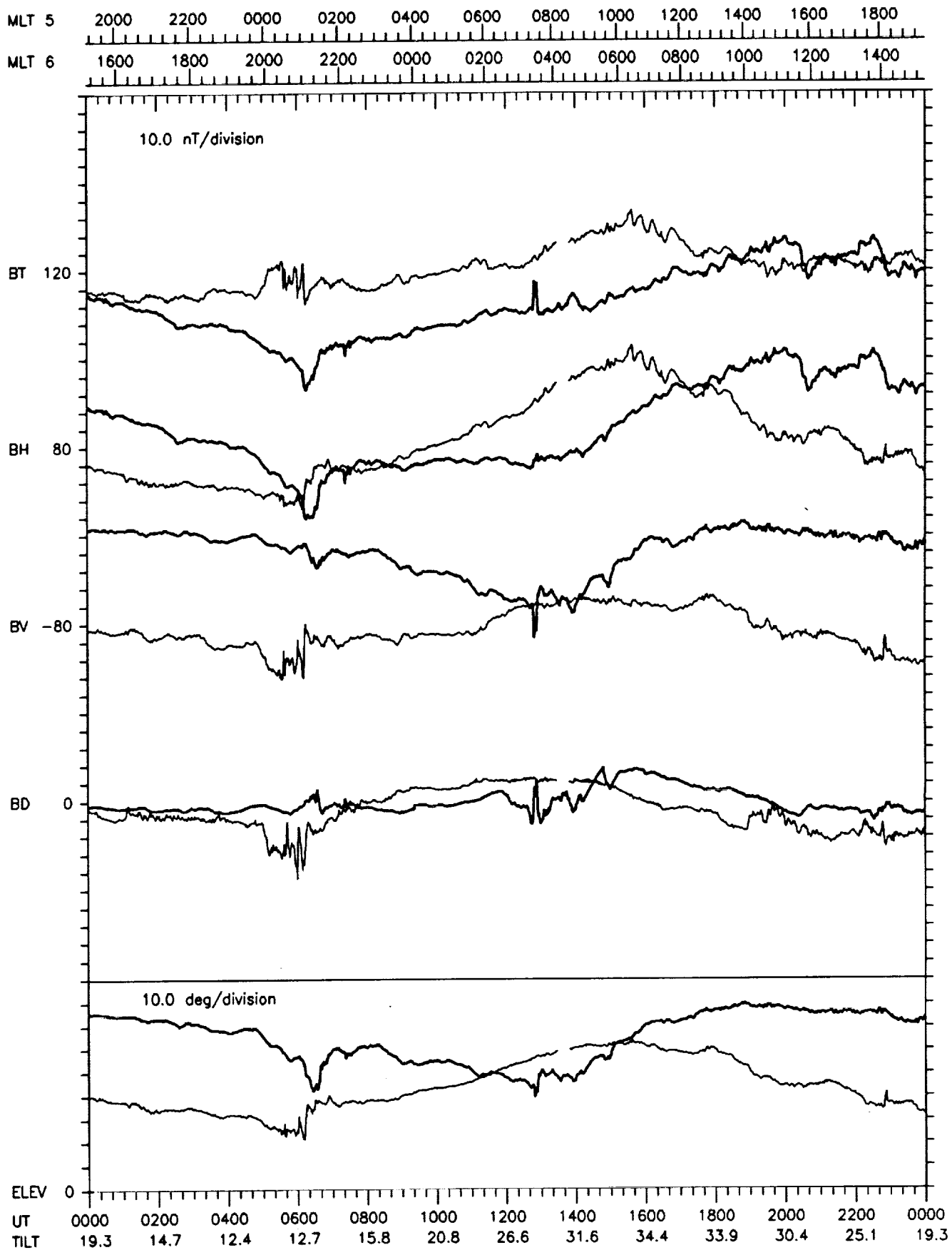
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY166 JUN 15  
 GEOLON, MAGLAT = 5( -75.2, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY167 JUN 16  
 GEOLON, MAGLAT = 5( -75.1, 11.2) 6(-135.4, 4.8)

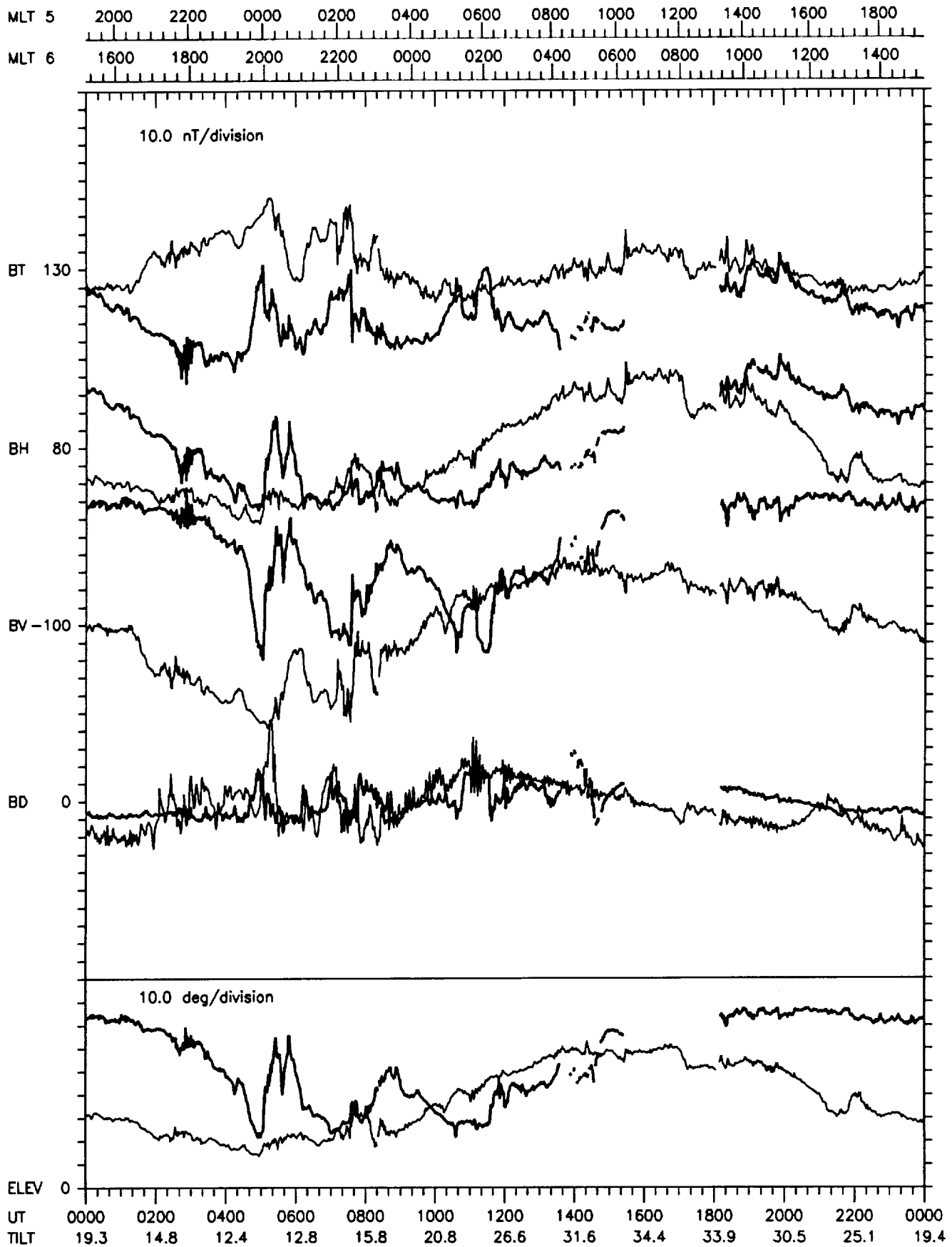


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY168 JUN 17  
 GEOLON, MAGLAT = 5( -75.1, 11.2) 6(-135.4, 4.8)

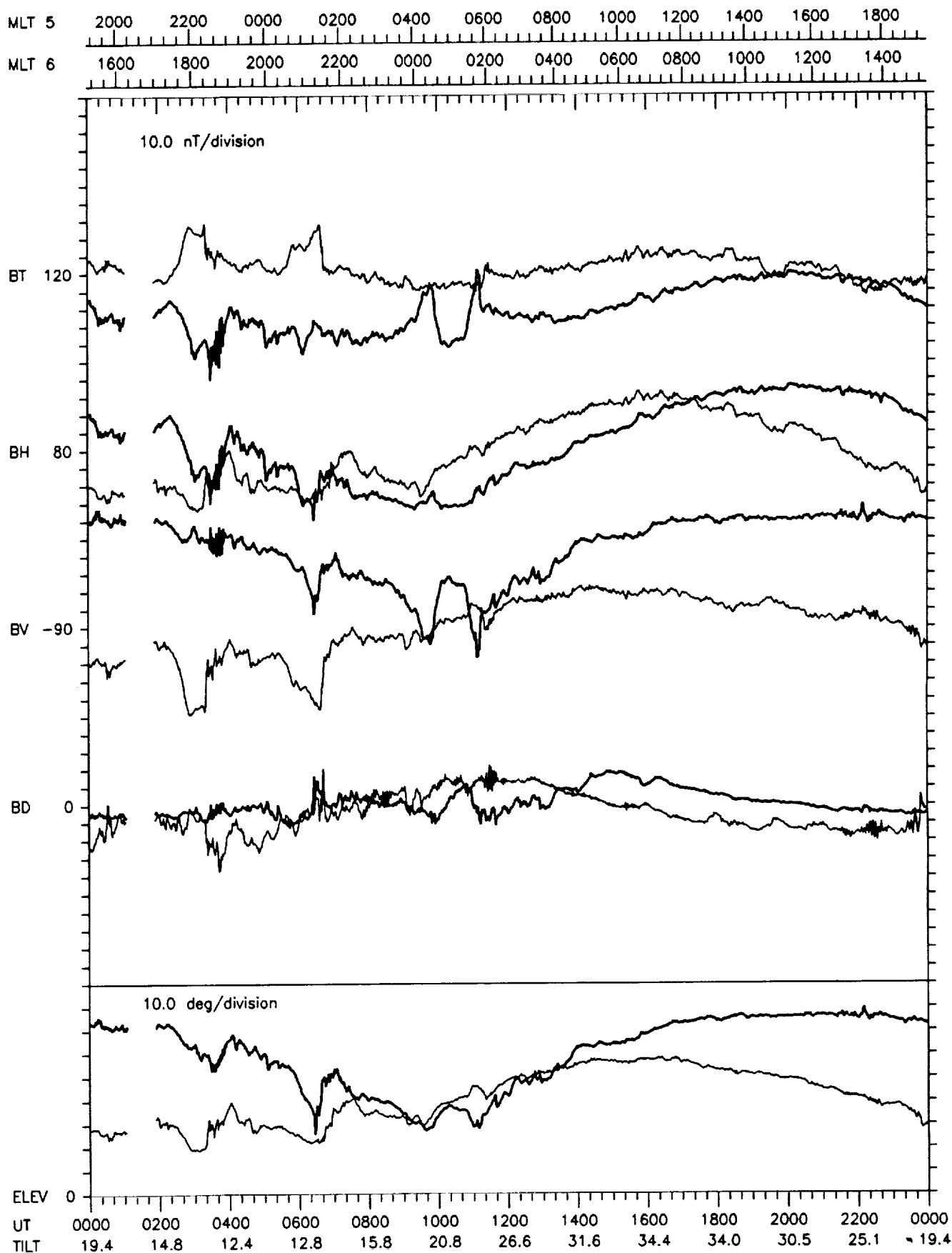




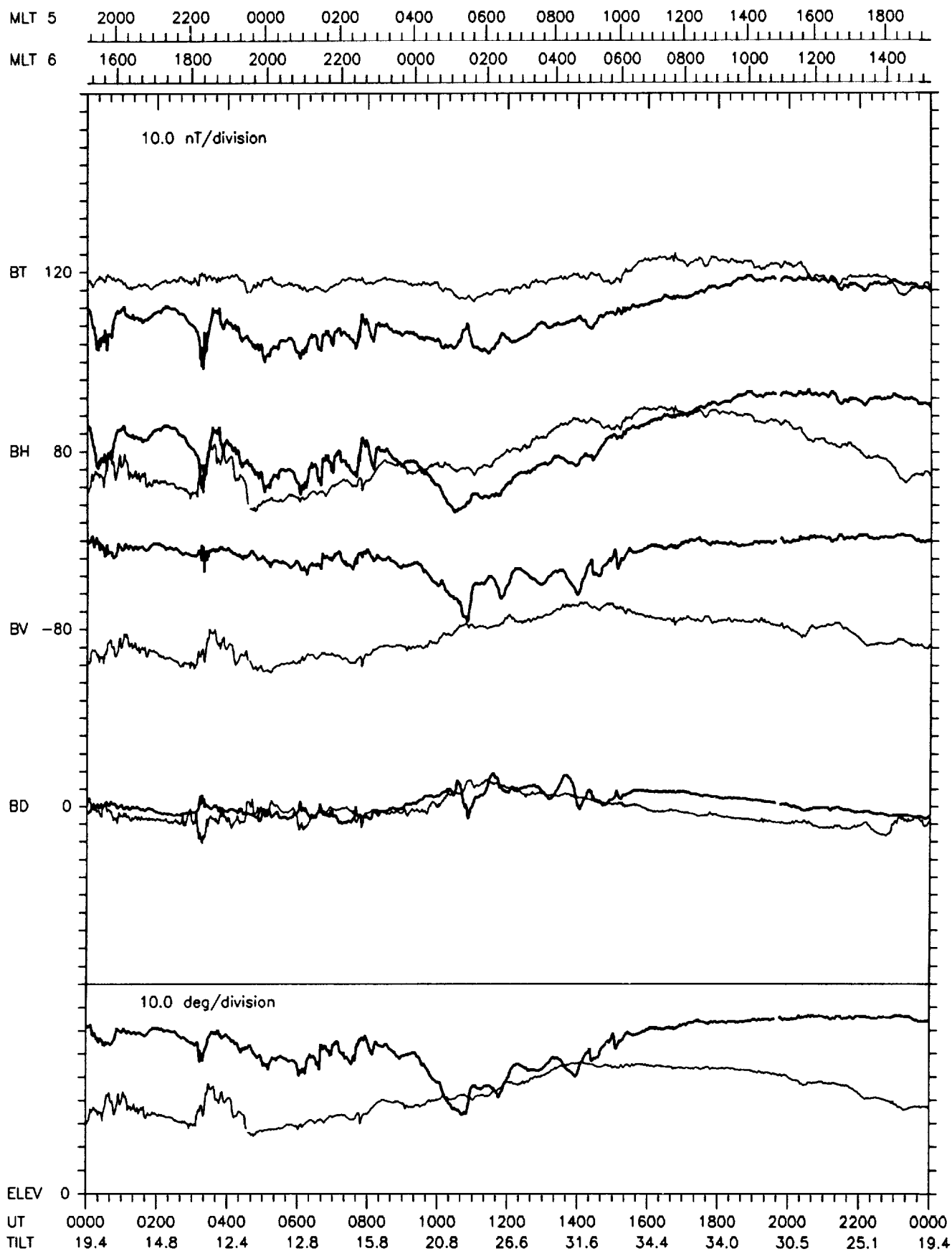
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY169 JUN 18  
 GEOLON, MAGLAT = 5( -75.1, 11.2) 6(-135.4, 4.8)



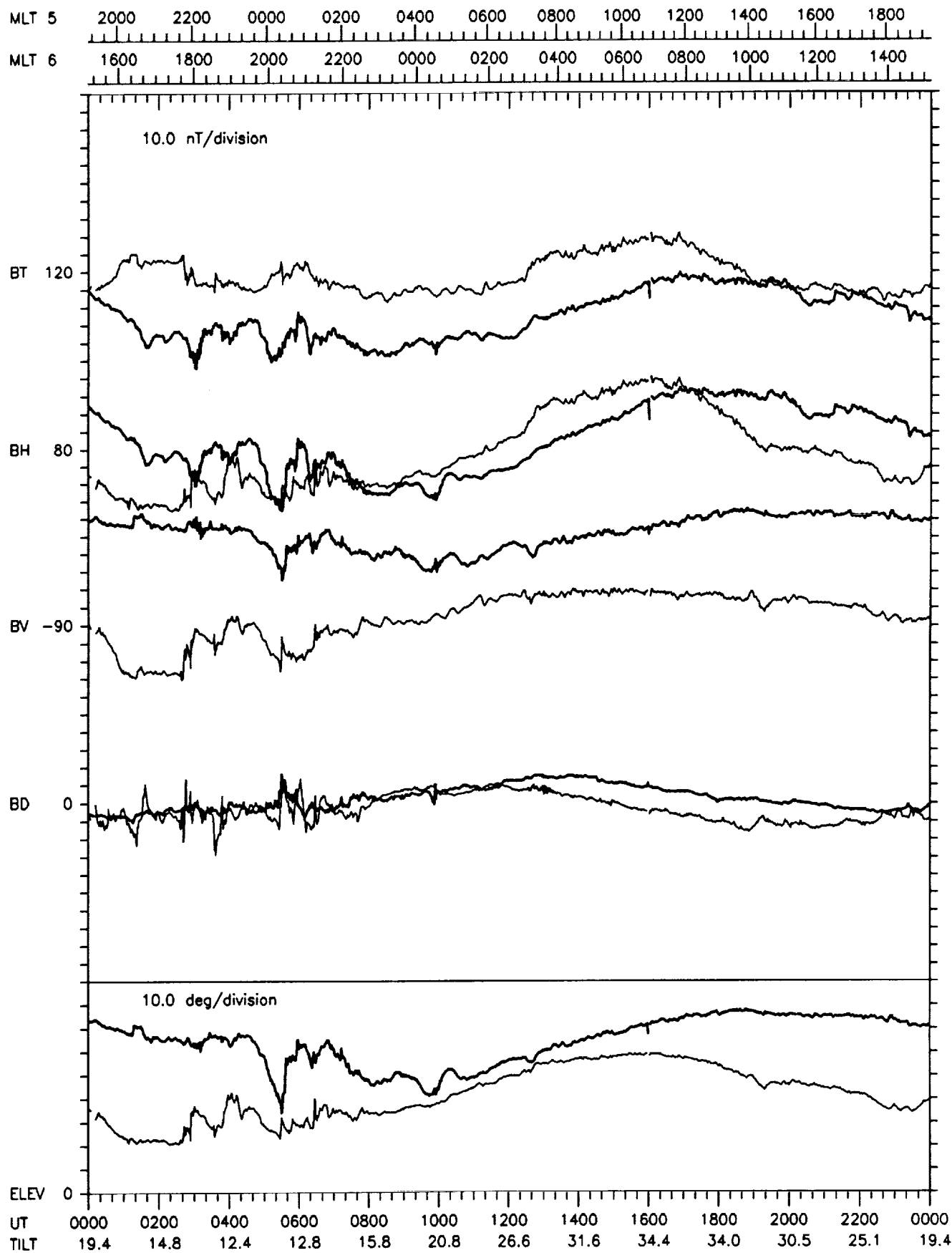
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY170 JUN 19  
 GEOLON, MAGLAT = 5( -75.1, 11.2) 6(-135.4, 4.8)



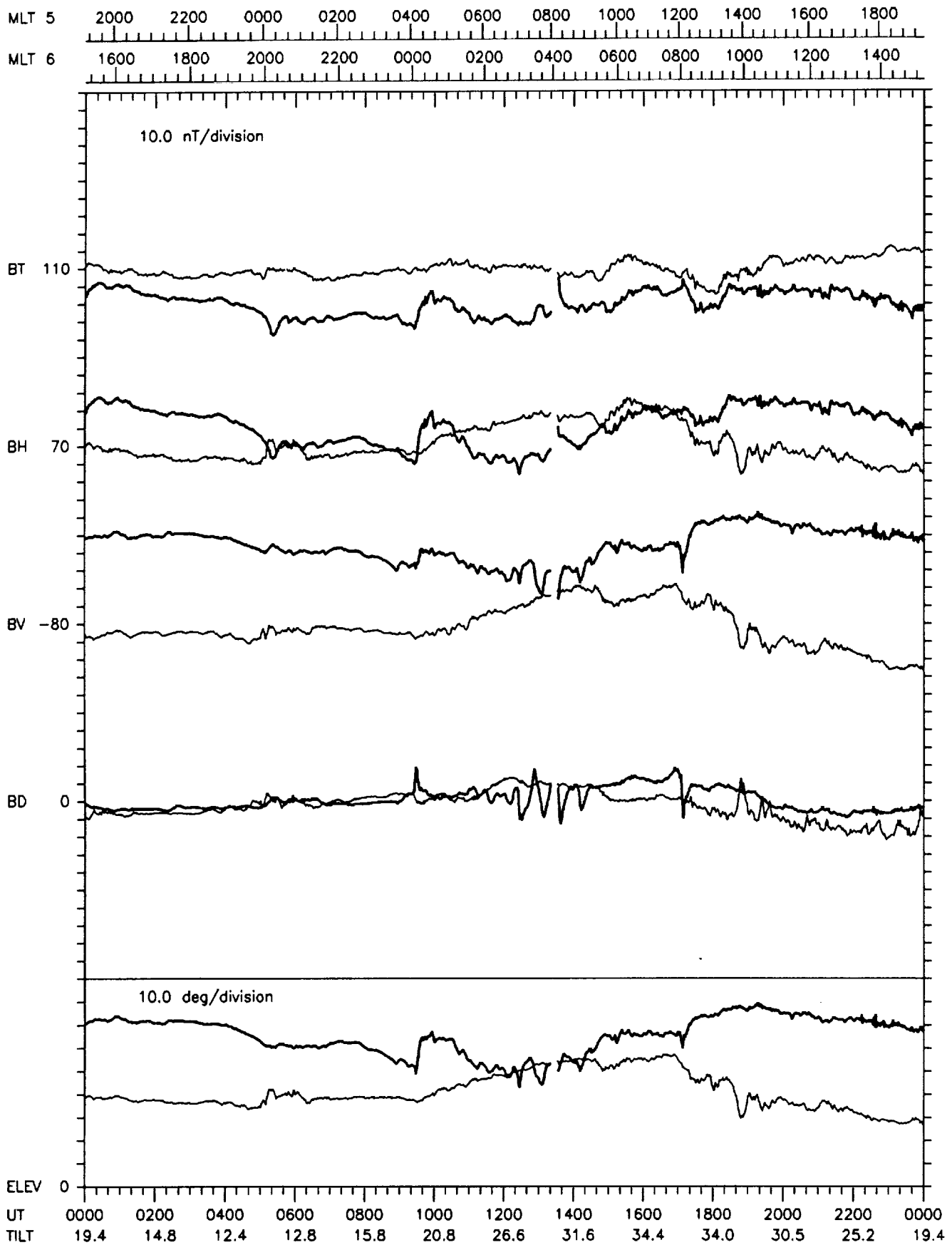
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY171 JUN 20  
 GEOLON, MAGLAT = 5( -75.0, 11.2) 6(-135.4, 4.8)



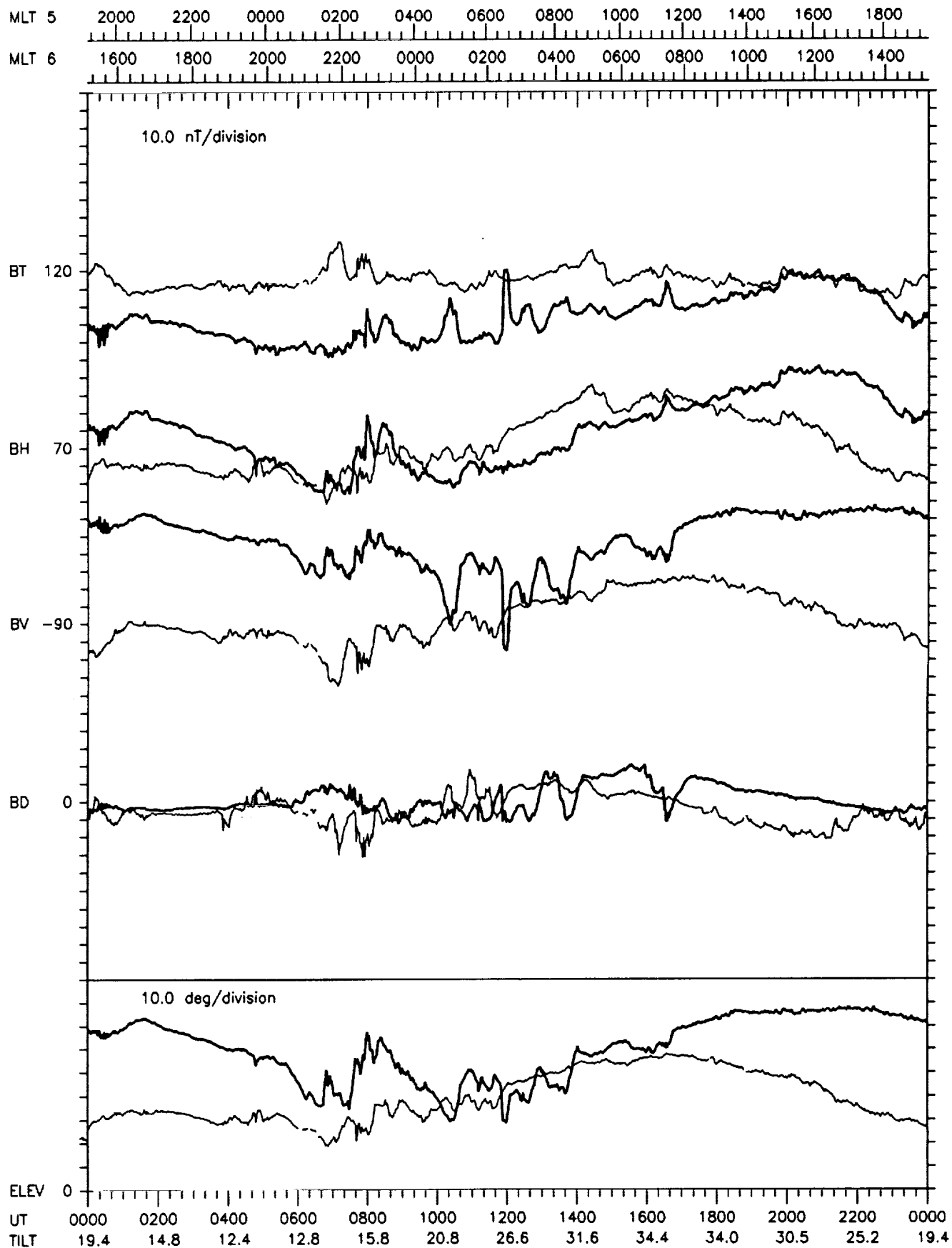
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY172 JUN 21  
 GEOLON, MAGLAT = 5( -75.0, 11.2) 6(-135.4, 4.8)



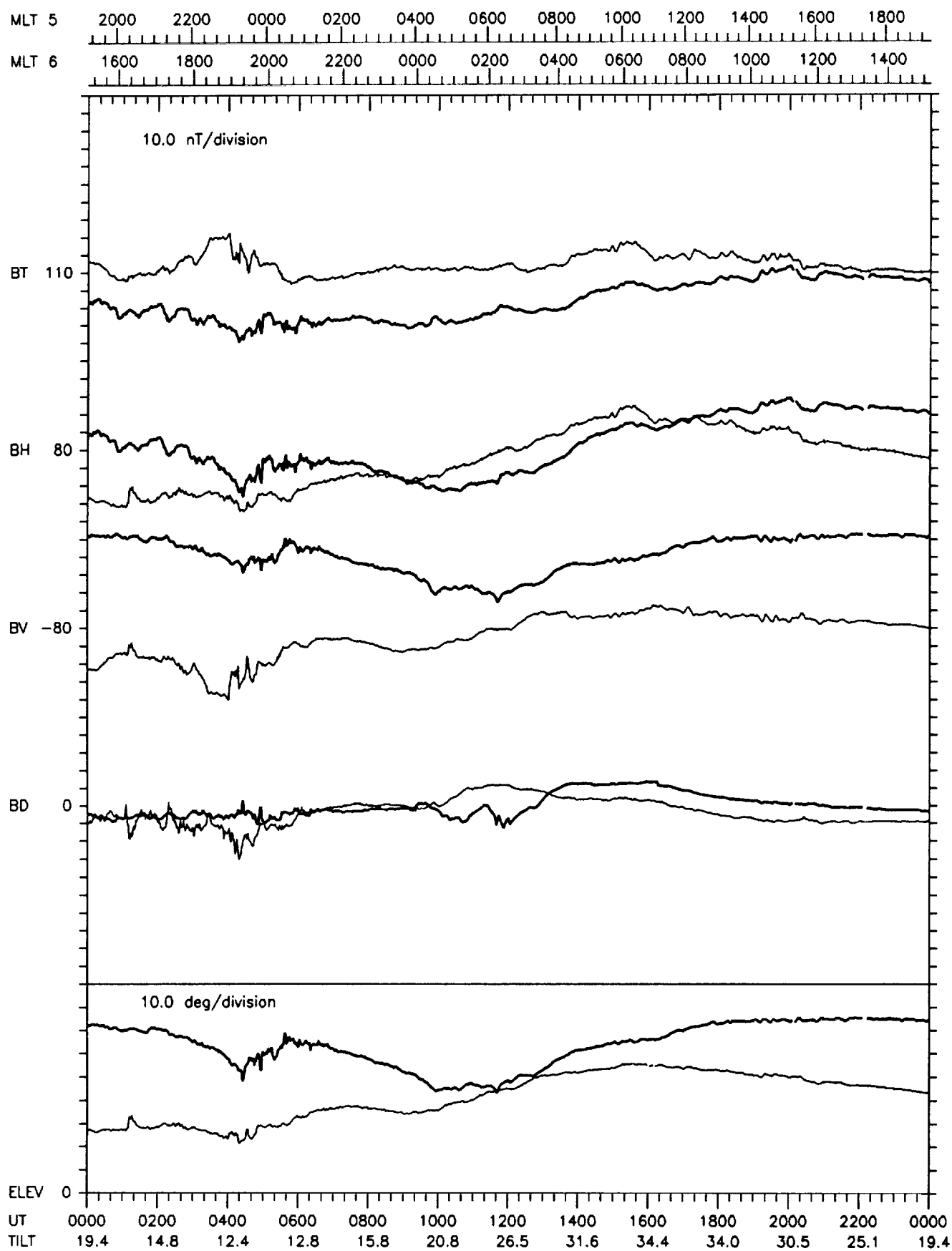
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY173 JUN 22  
 GEOLON, MAGLAT = 5( -75.0, 11.2) 6(-135.4, 4.8)



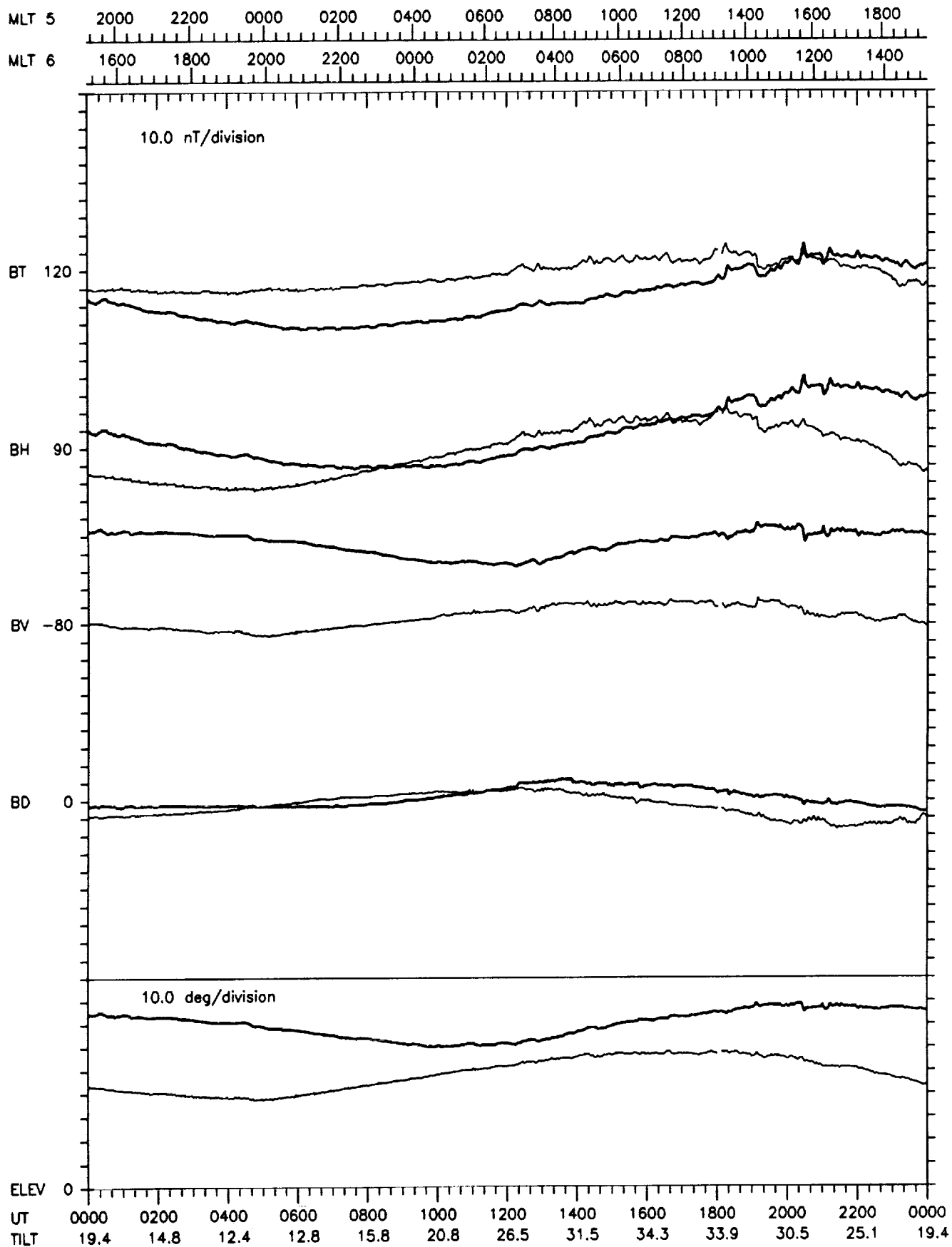
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY174 JUN 23  
 GEOLON, MAGLAT = 5( -75.0, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY175 JUN 24  
 GEOLON, MAGLAT = 5( -74.9, 11.2) 6(-135.4, 4.8)

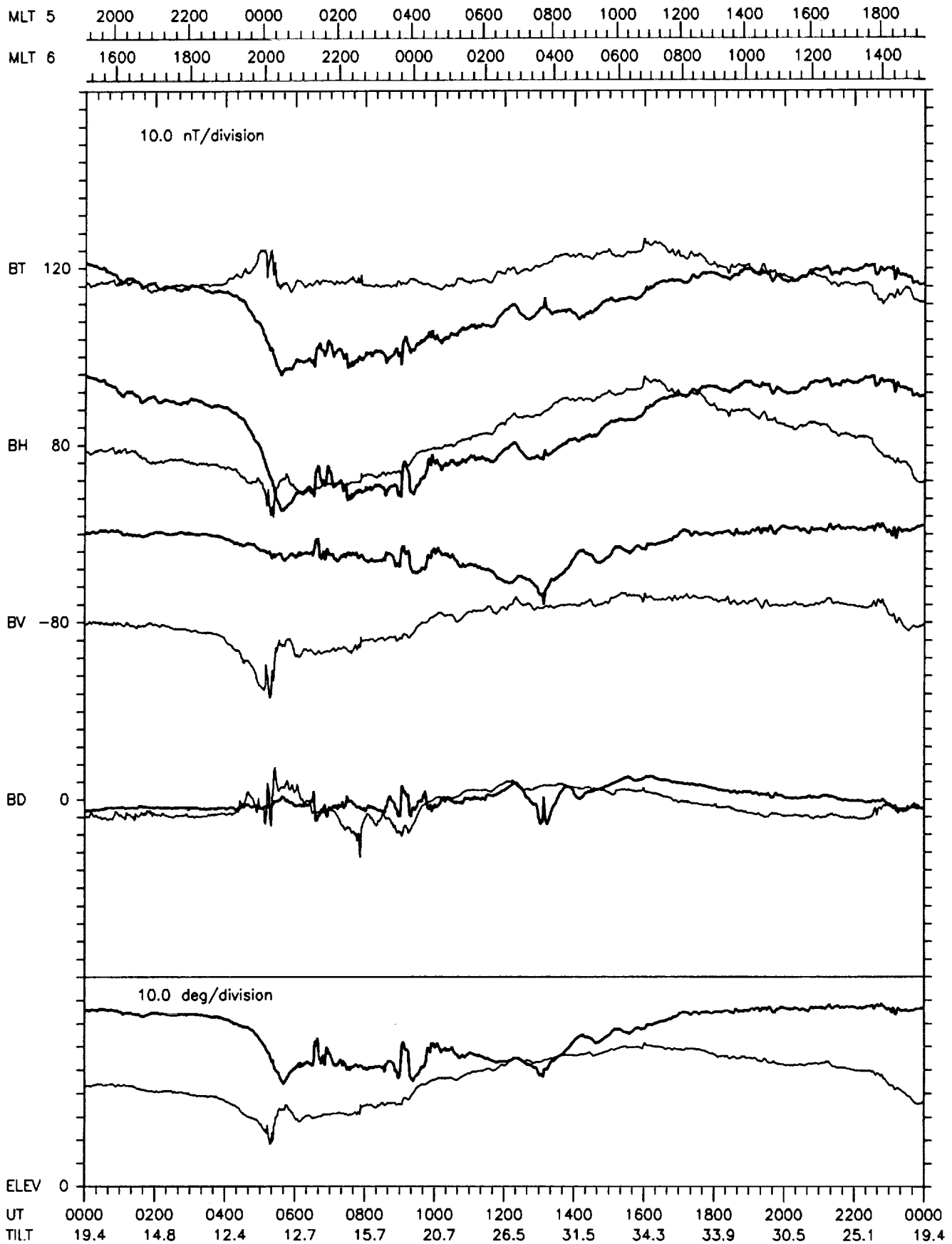


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY176 JUN 25  
 GEOLON, MAGLAT = 5( -74.9, 11.2) 6(-135.4, 4.8)

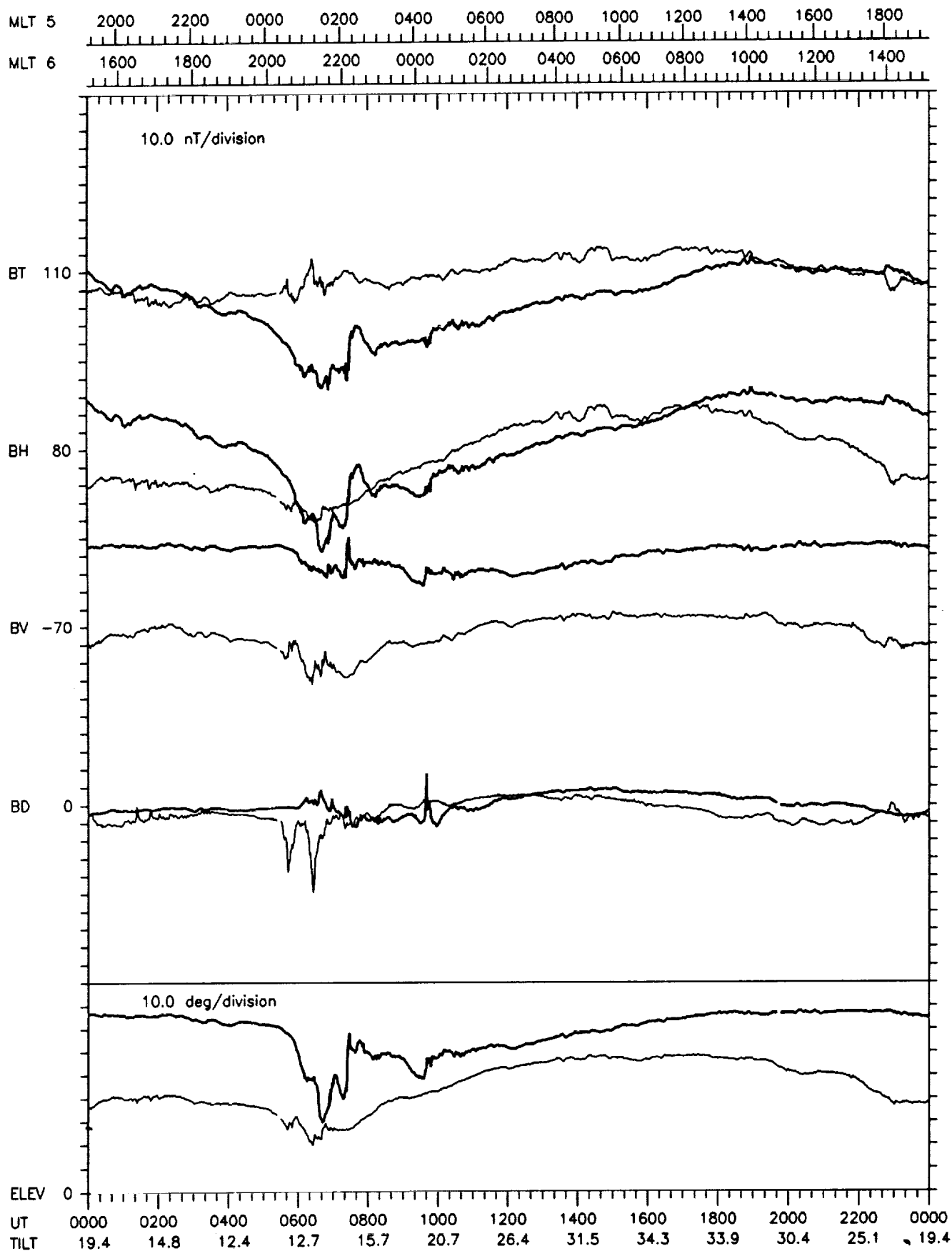




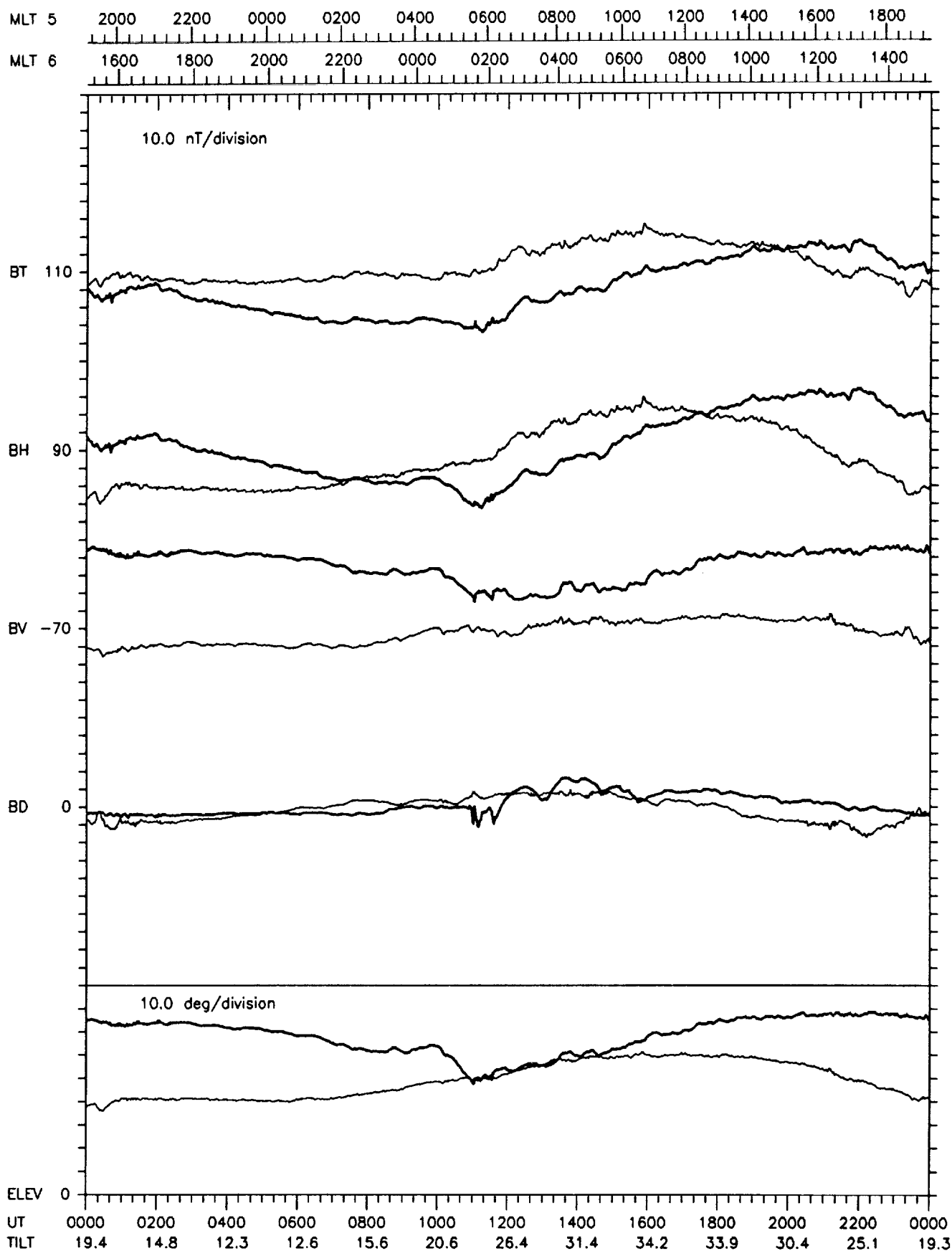
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY177 JUN 26  
 GEOLON, MAGLAT = 5( -74.9, 11.2) 6(-135.4, 4.8)



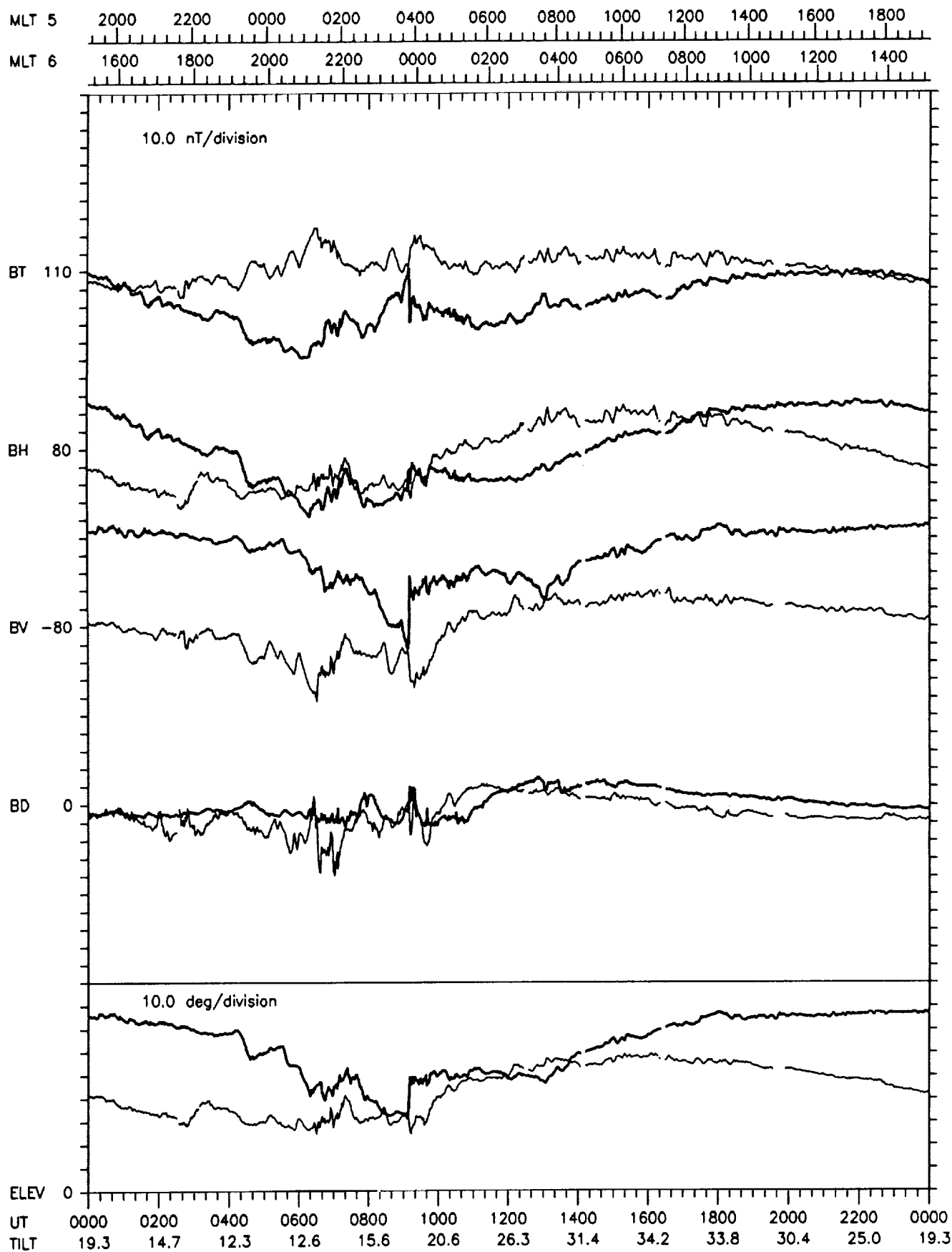
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY178 JUN 27  
 GEOLON, MAGLAT = 5( -74.9, 11.2) 6(-135.4, 4.8)



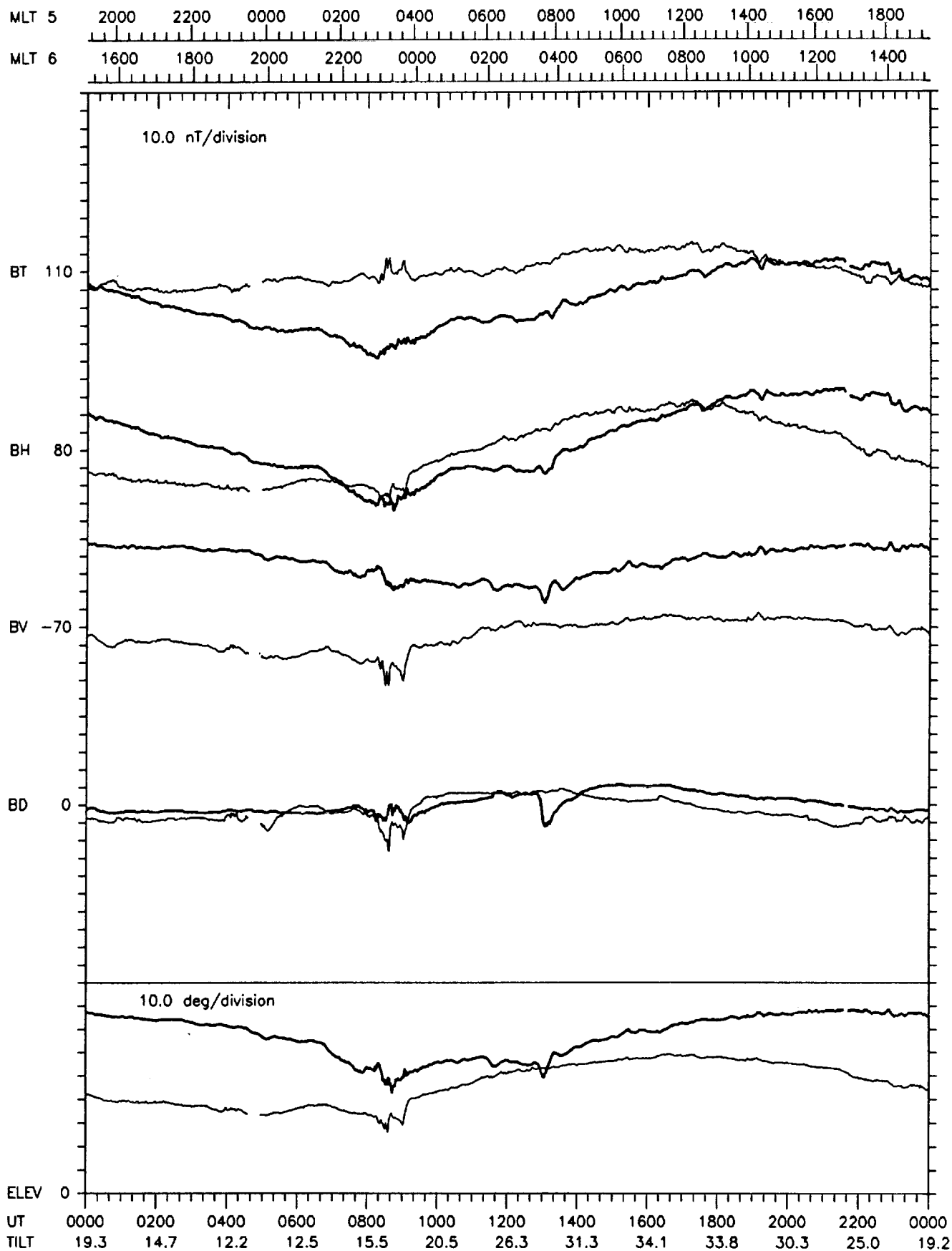
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY179 JUN 28  
 GEOLON, MAGLAT = 5( -74.9, 11.2) 6(-135.4, 4.8)



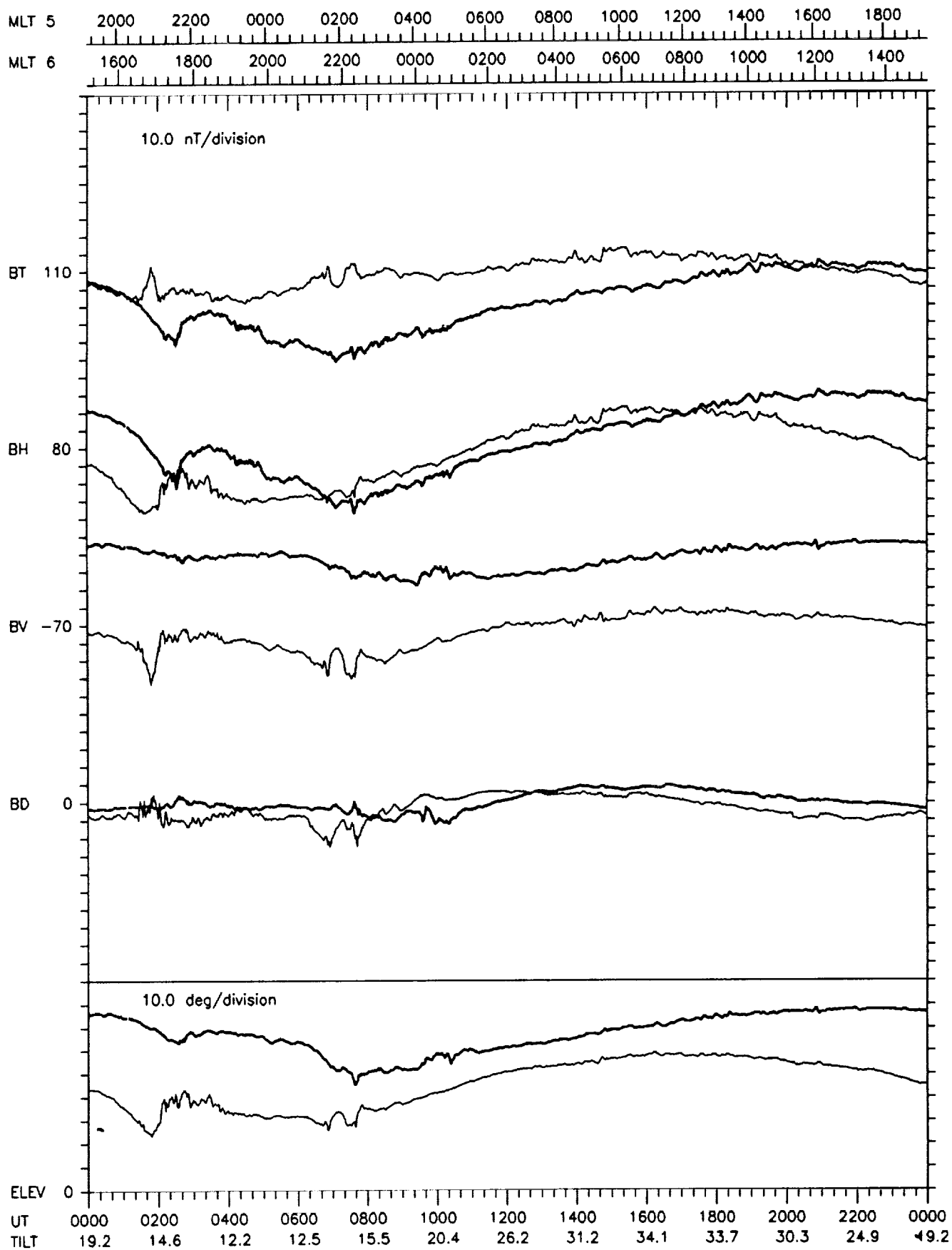
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY180 JUN 29  
 GEOLON, MAGLAT = 5( -74.8, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY181 JUN 30  
 GEOLON, MAGLAT = 5( -74.8, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 JUL 1 DAY182  
 GEOLON, MAGLAT = 5( -74.8, 11.2) 6(-135.4, 4.8)

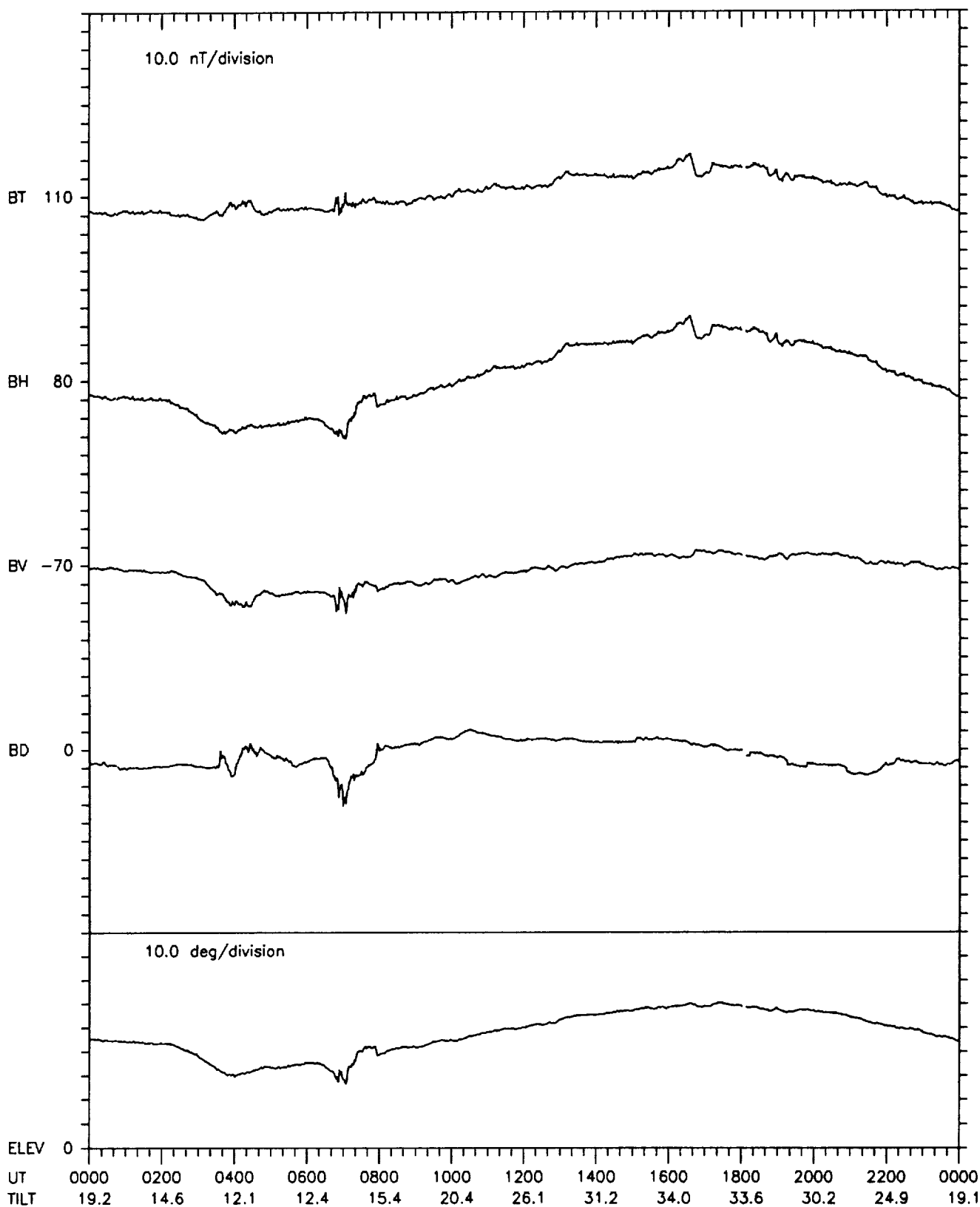


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY183 JUL 2

(GEOLON, MAGLAT) = ( -74.8, 11.2)

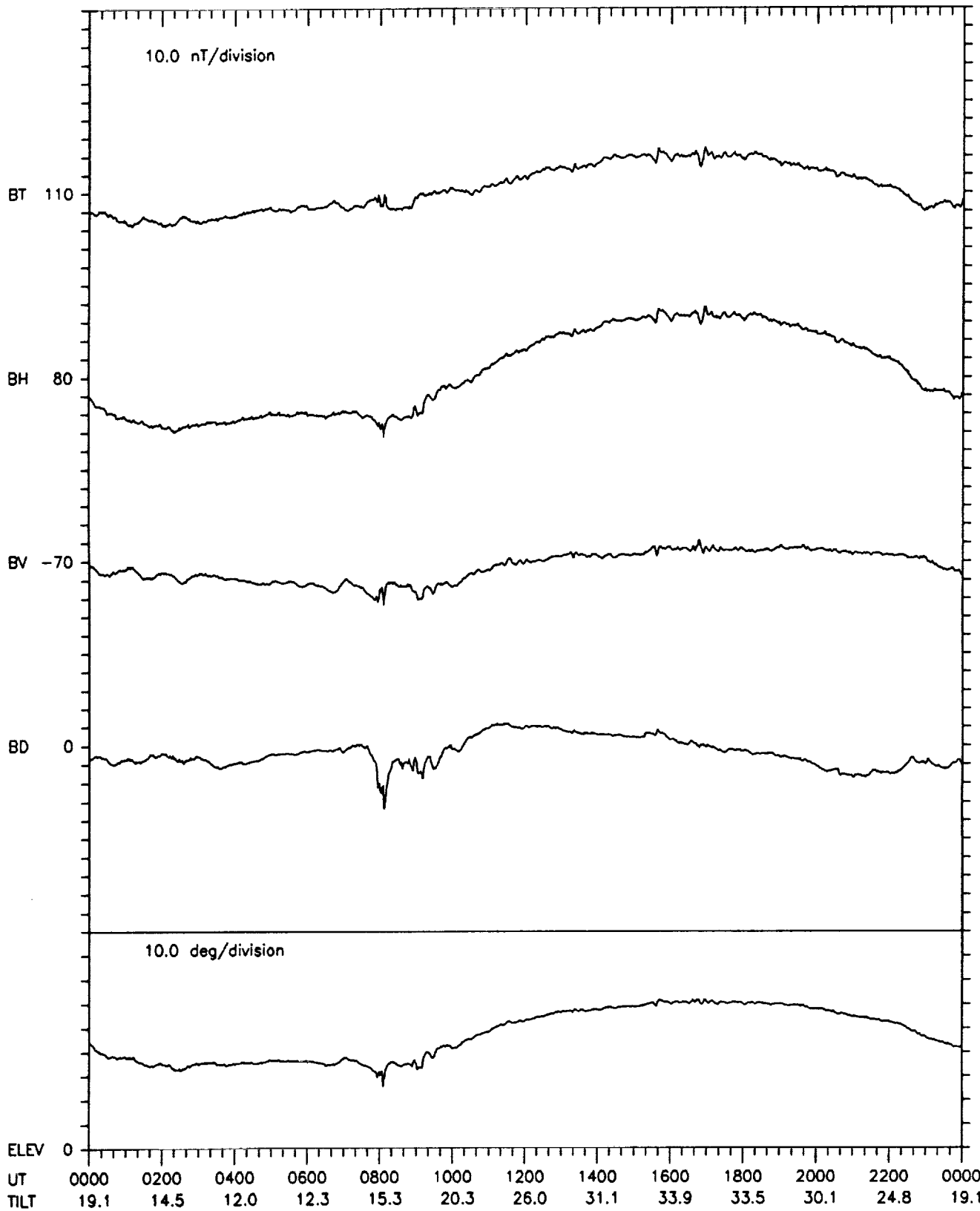
MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY184 JUL 3  
(GEOLON, MAGLAT) = ( -74.8, 11.2)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



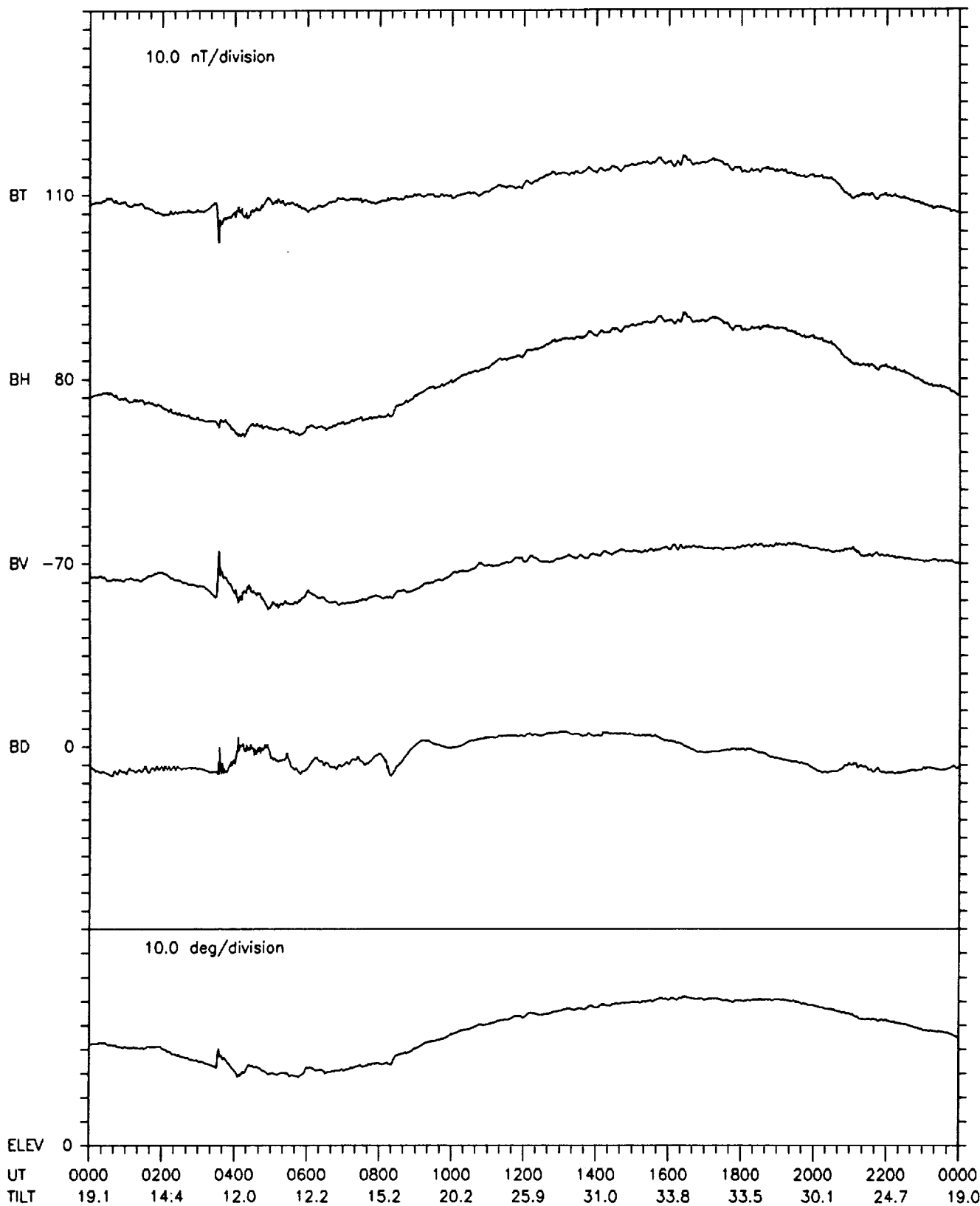
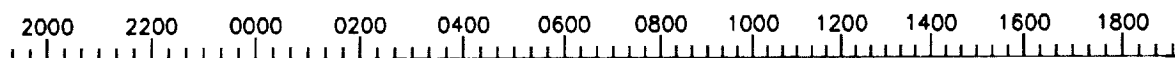


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

1983 DAY185 JUL 4

(GEOLON, MAGLAT) = ( -74.7, 11.2)

MLT 5

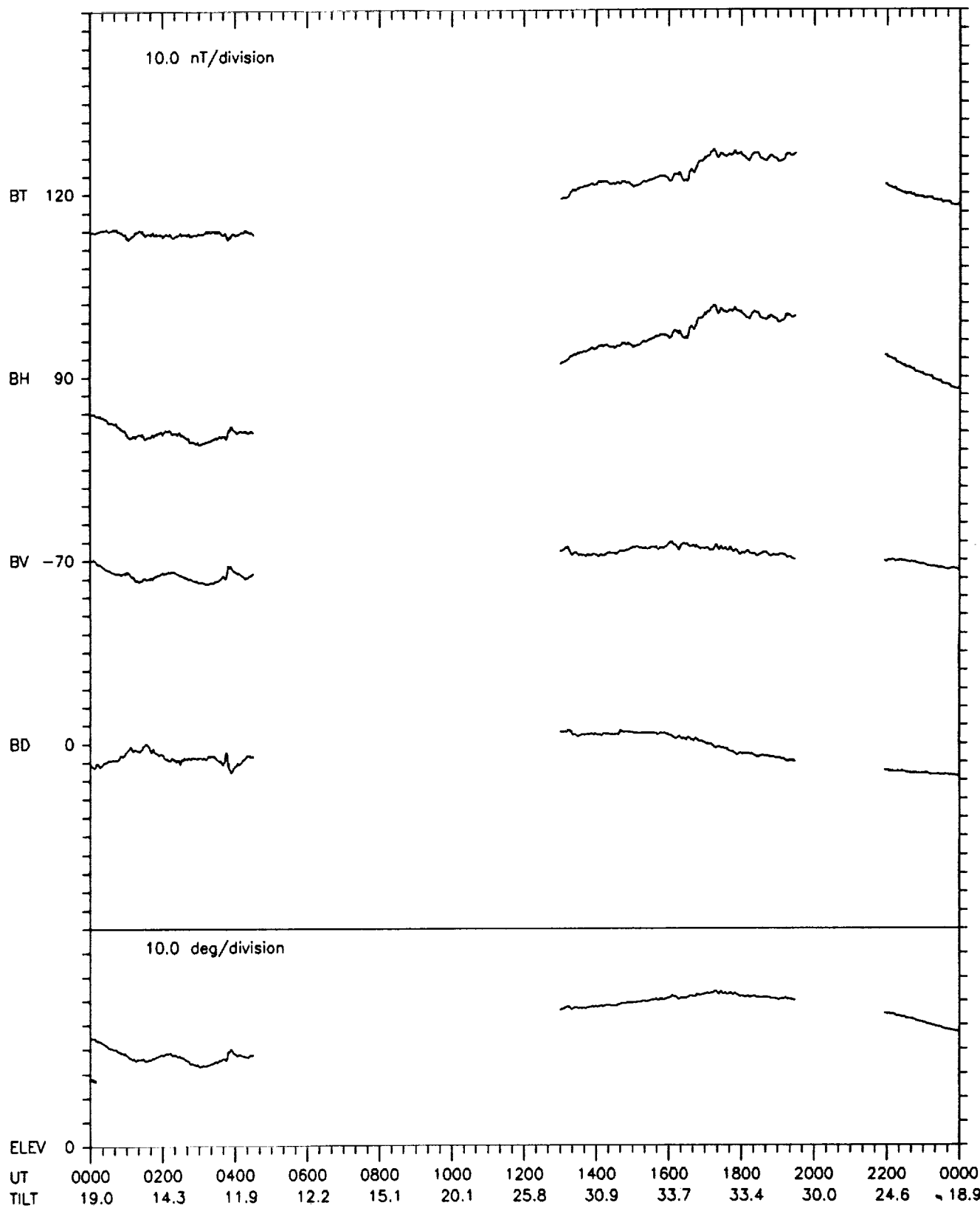


# GOES 5 MAG DATA IN DIPOLE VDH COORDINATES

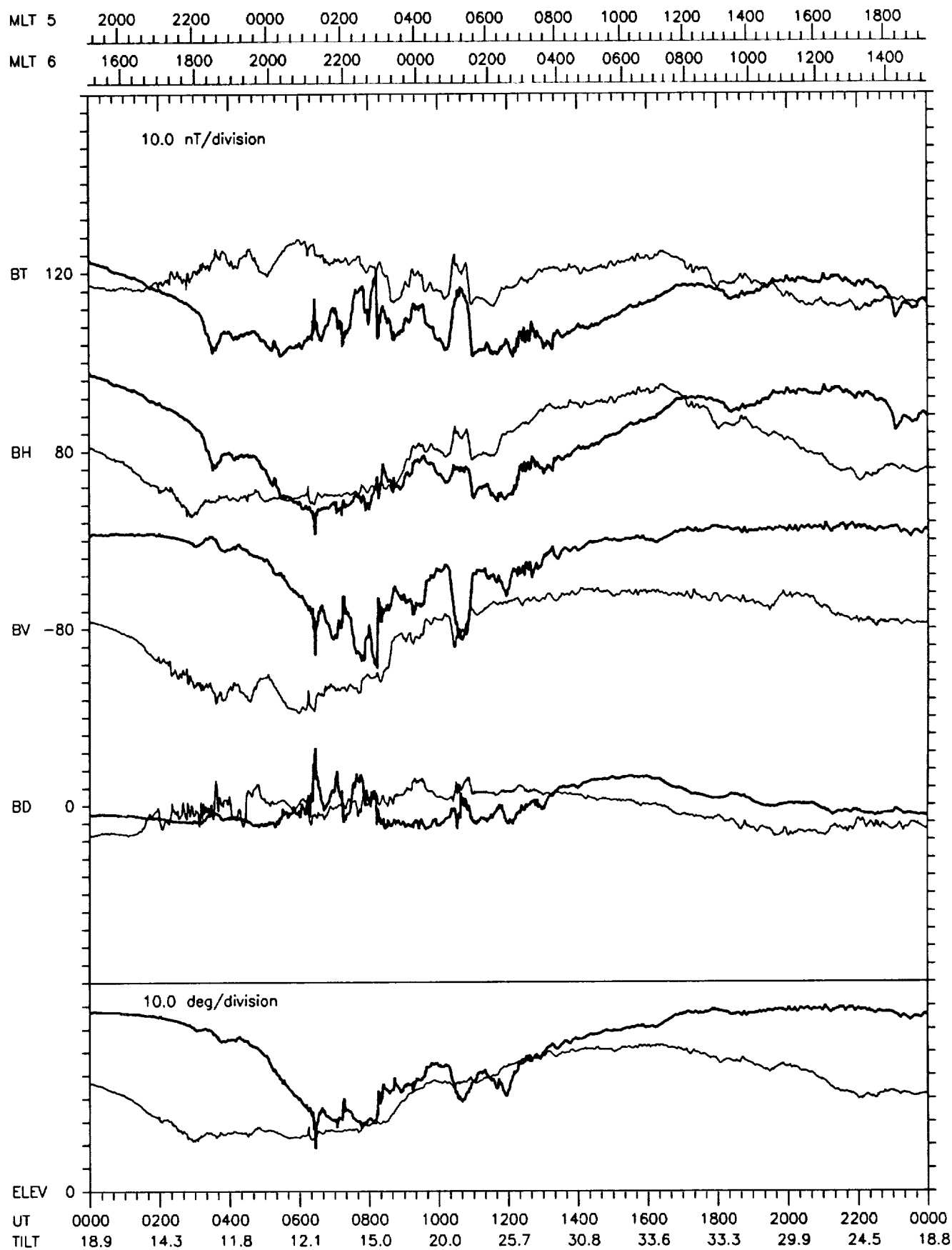
1983 DAY186 JUL 5

(GEOLON, MAGLAT) = ( -74.7, 11.2)

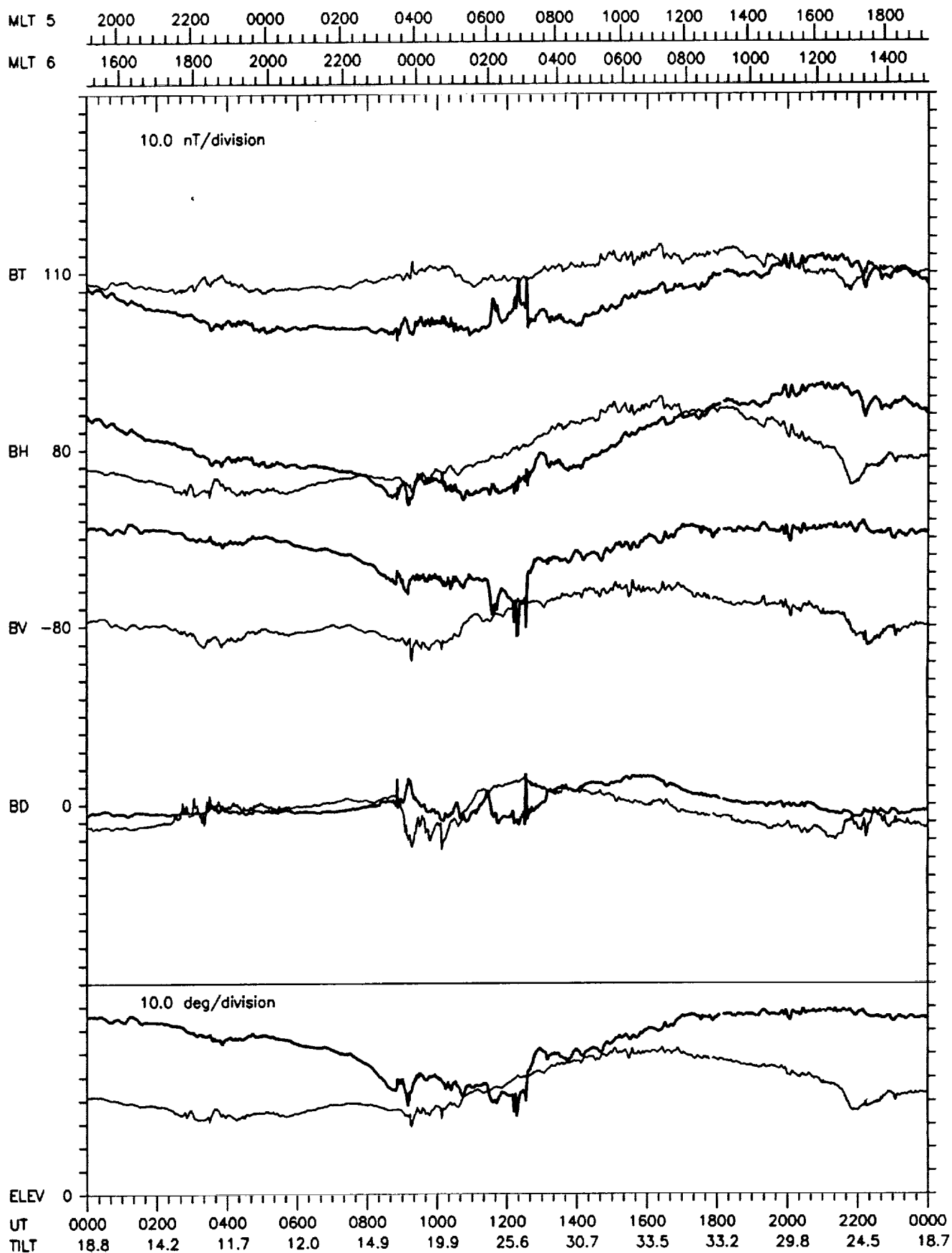
MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800



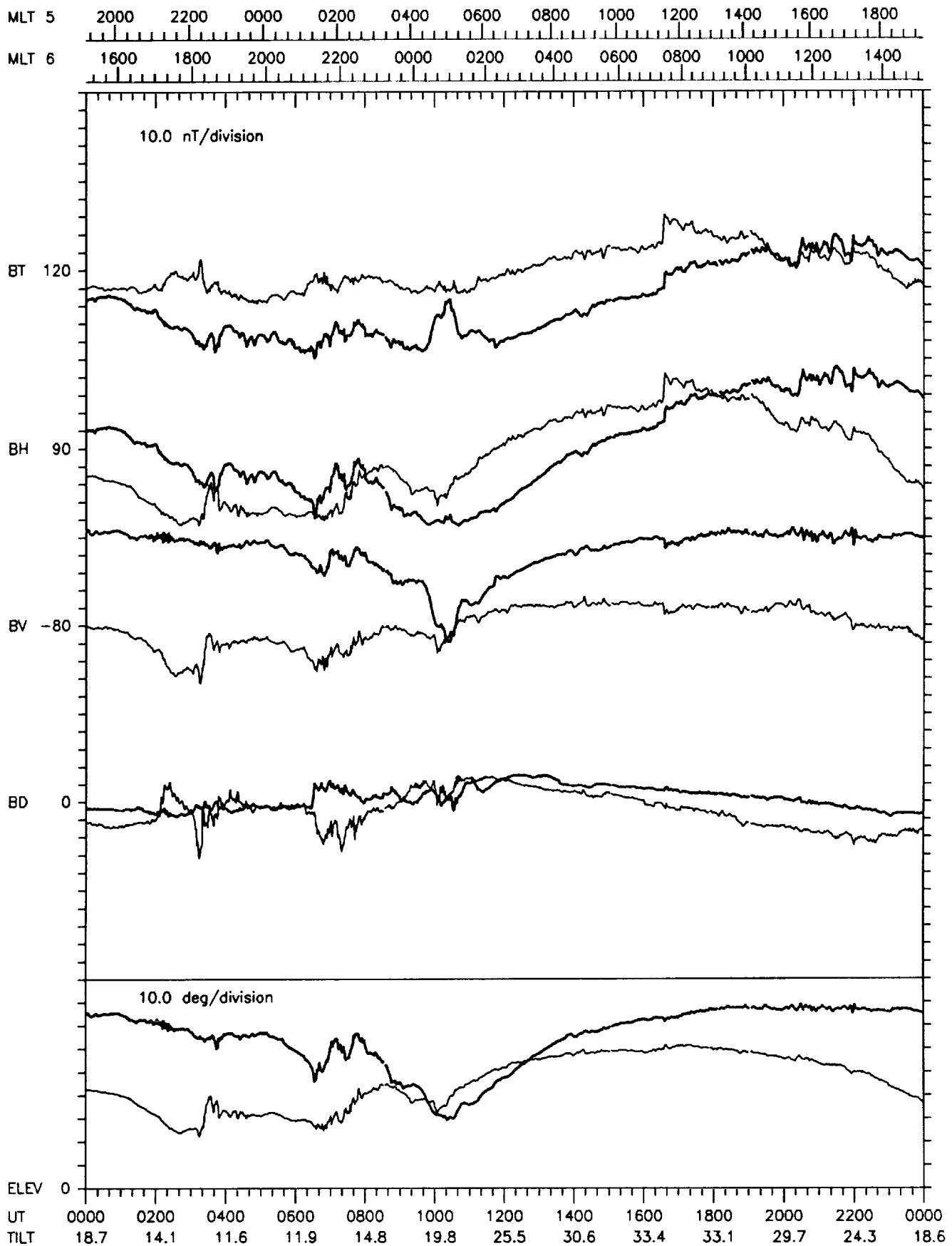
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY187 JUL 6  
 GEOLON, MAGLAT = 5( -74.7, 11.2) 6(-135.4, 4.8)



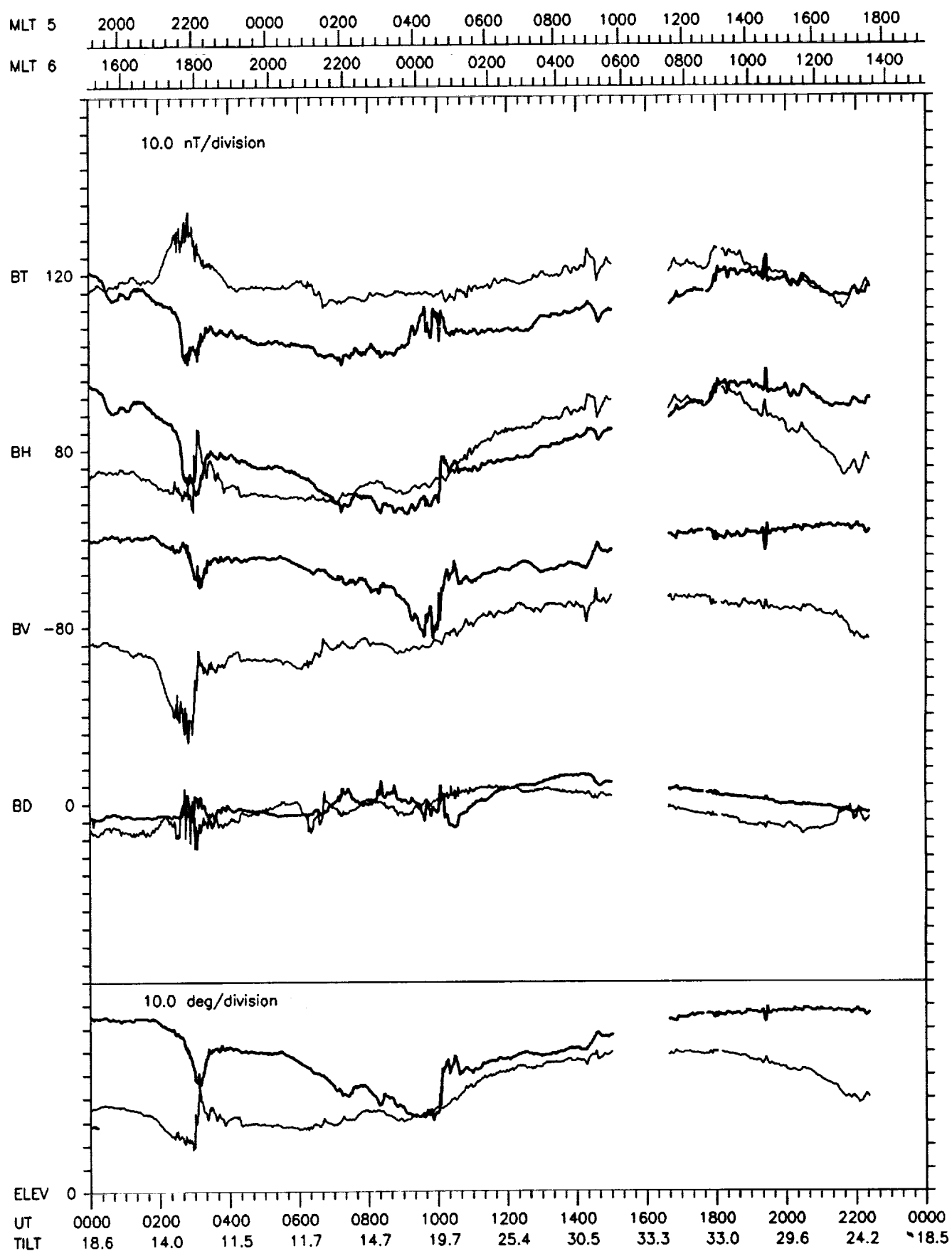
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY188 JUL 7  
 GEOLON, MAGLAT = 5( -74.7, 11.2) 6(-135.4, 4.8)



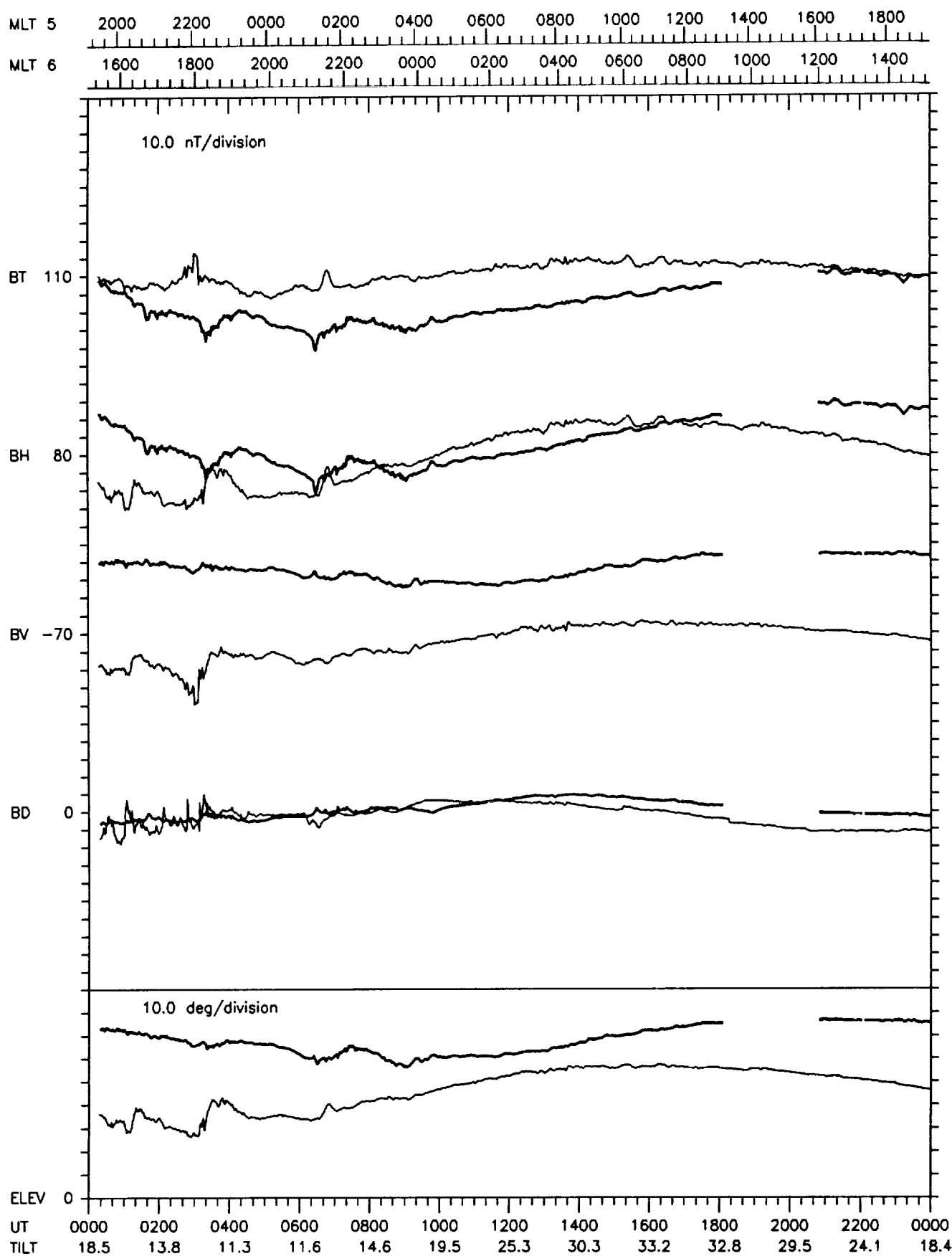
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY189 JUL 8  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)



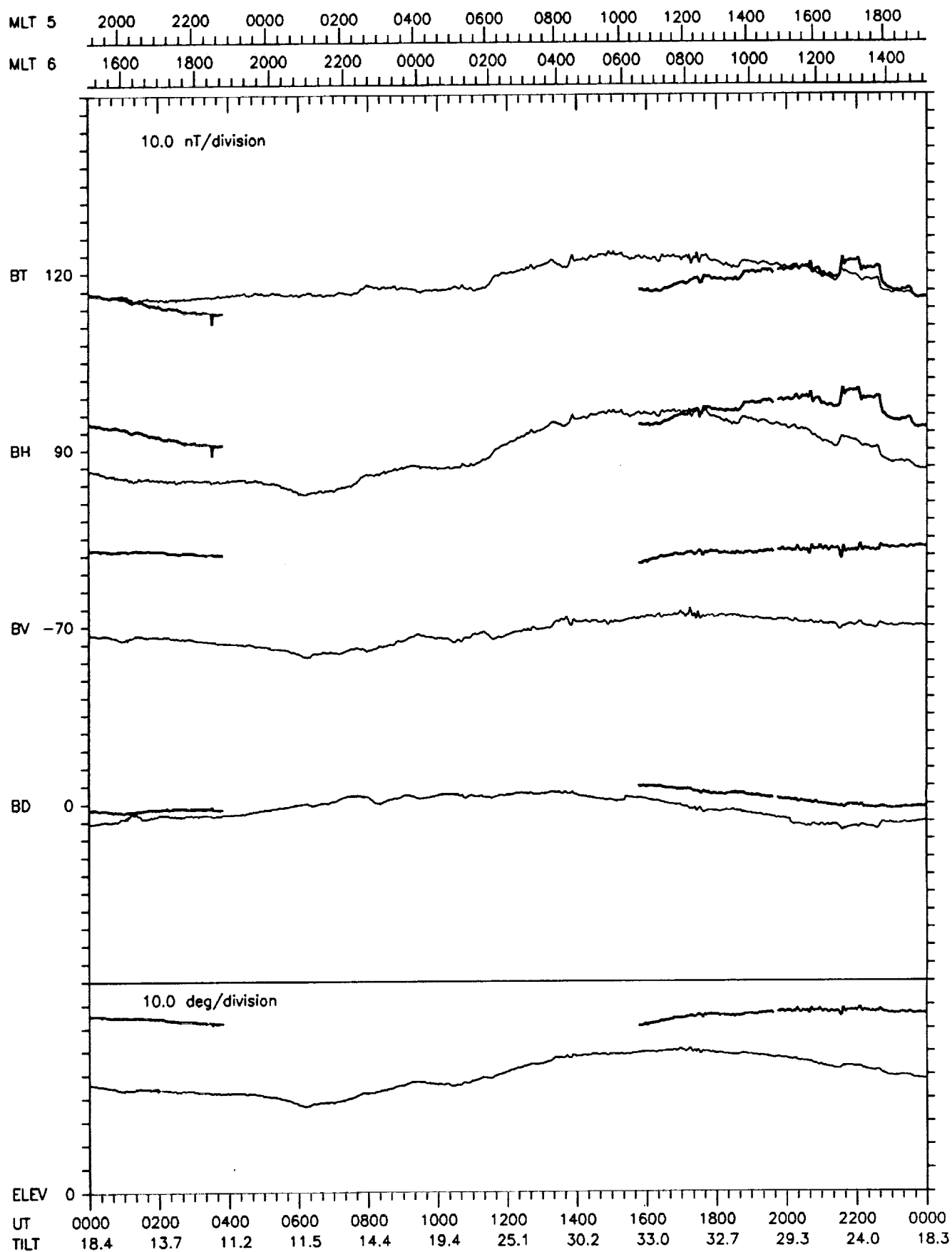
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY190 JUL 9  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY191 JUL 10  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)

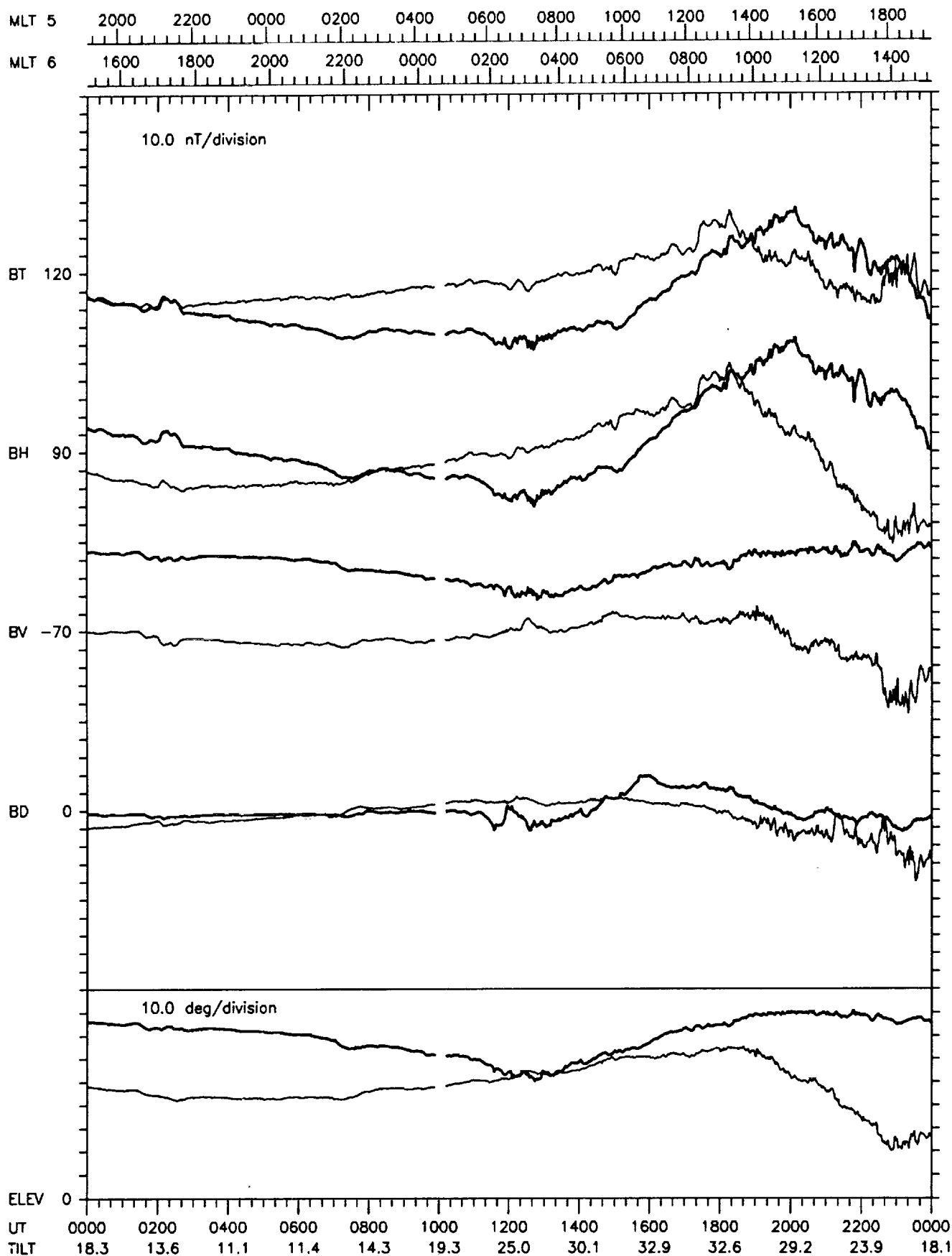


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY192 JUL 11  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)

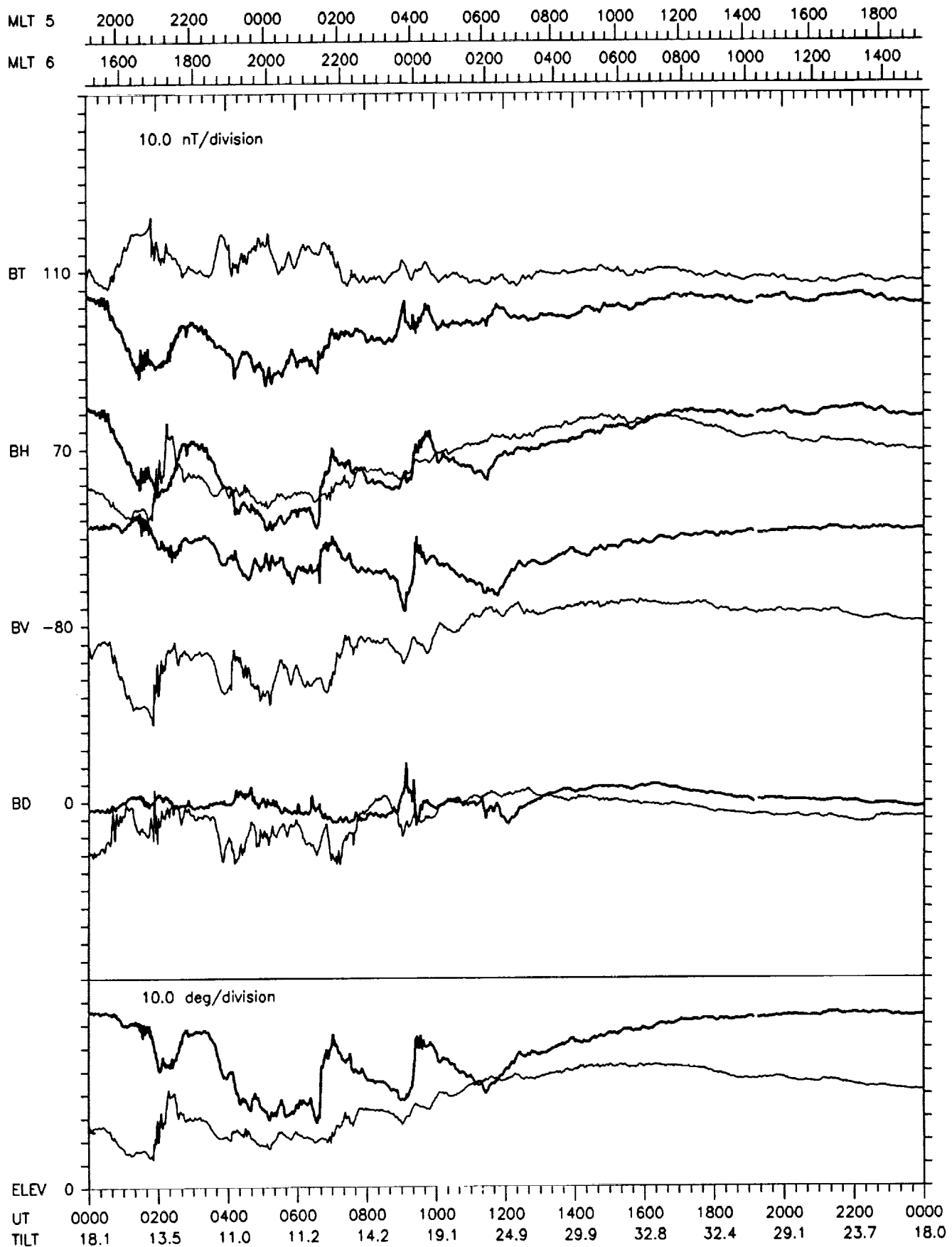




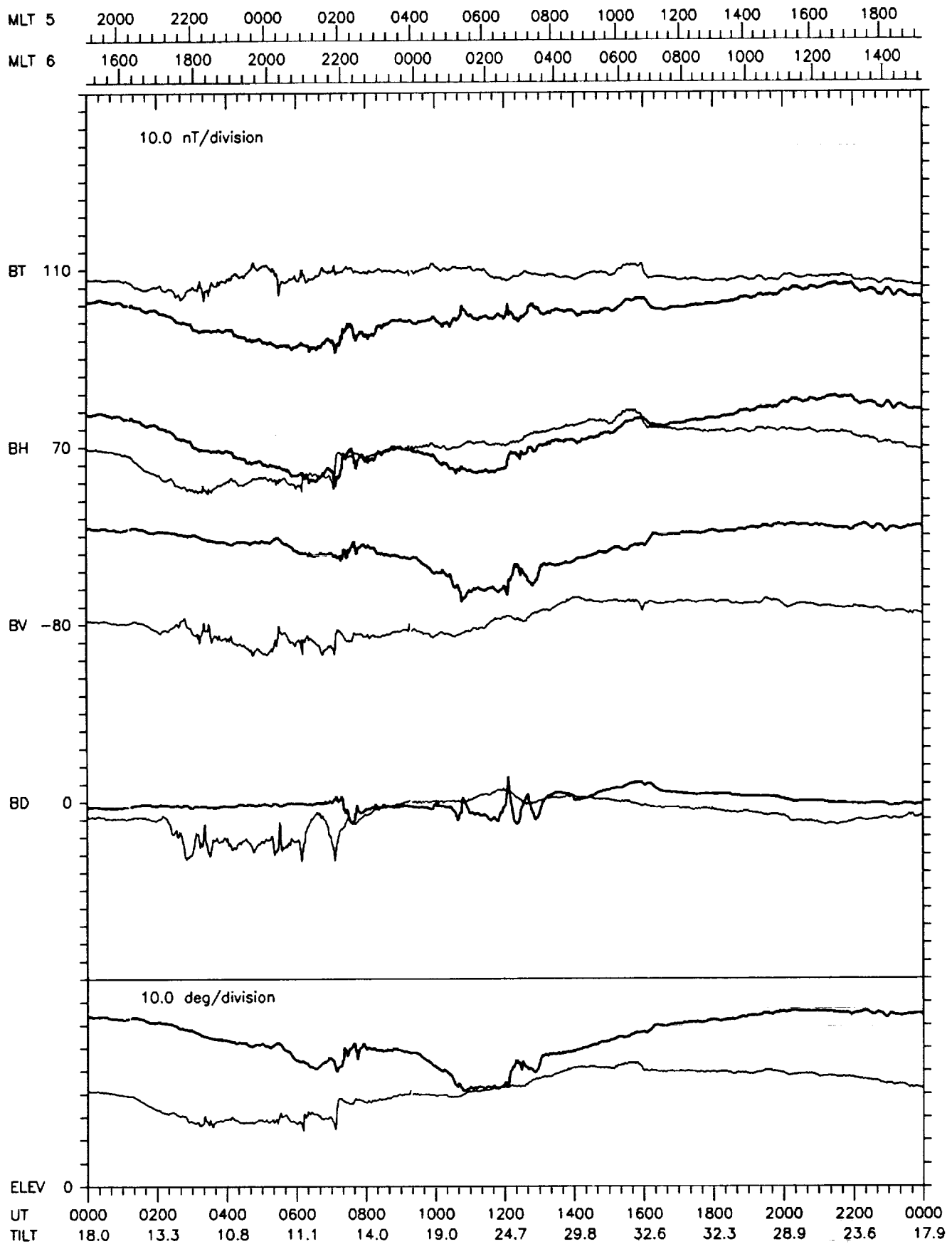
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY193 JUL 12  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



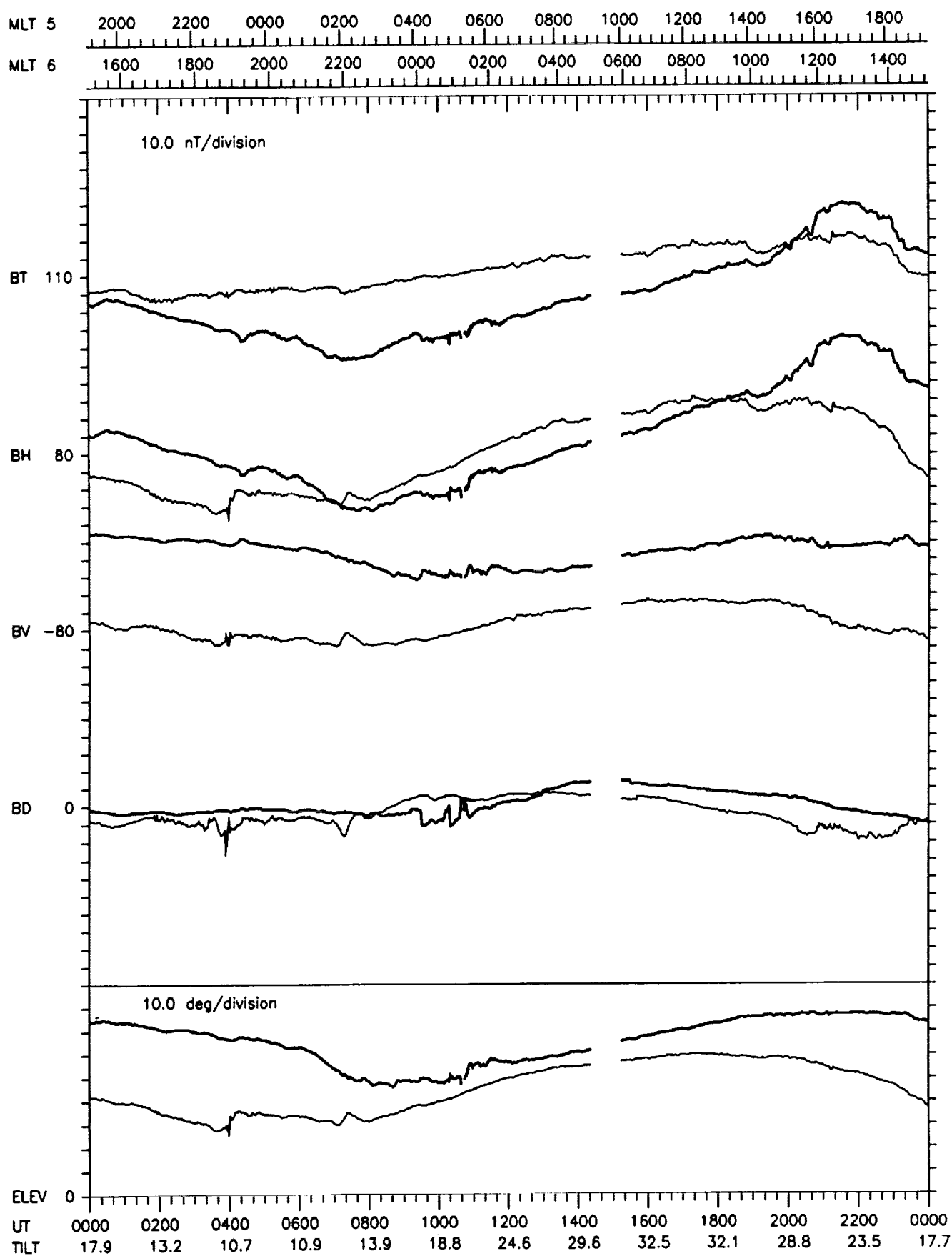
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY194 JUL 13  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



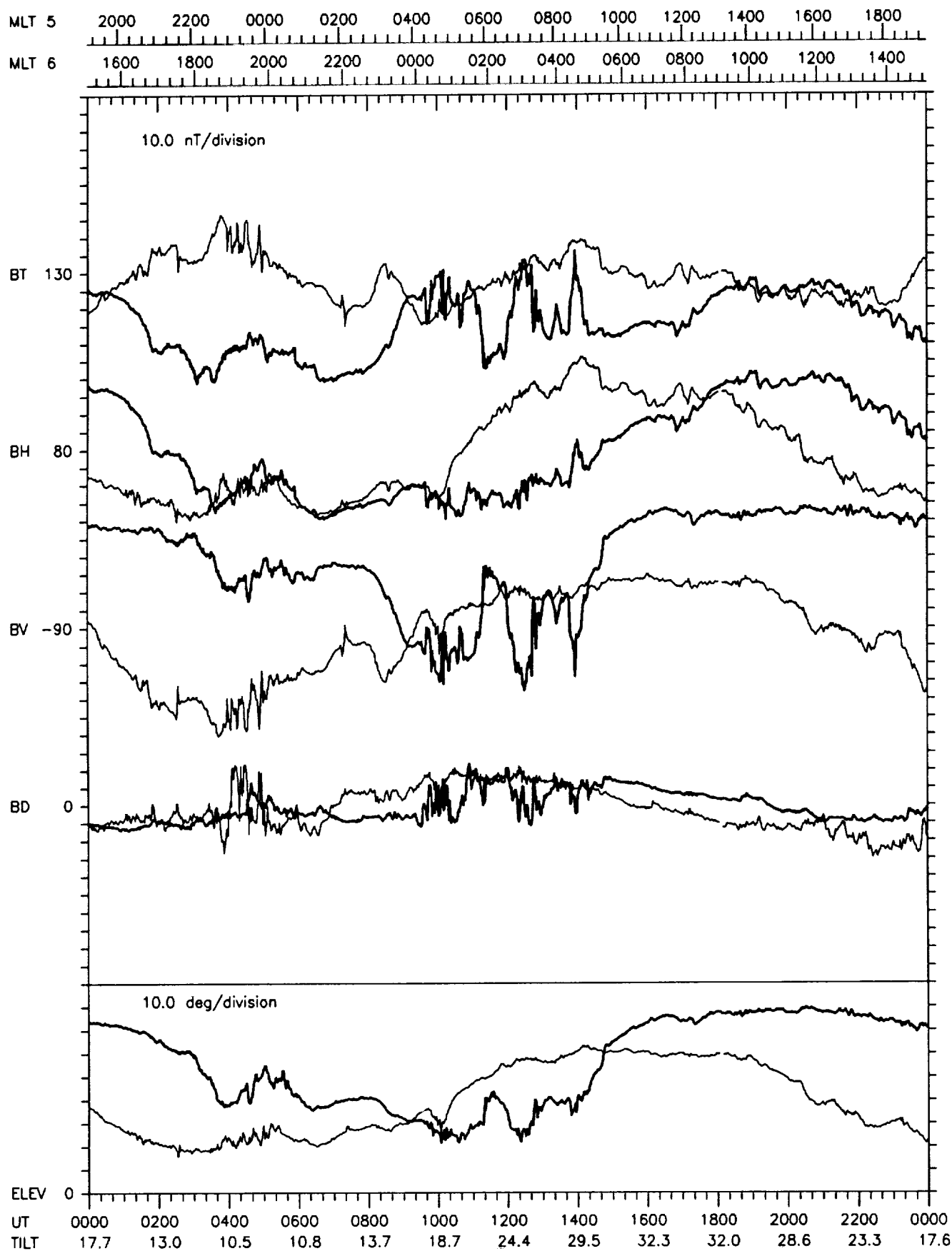
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY195 JUL 14  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



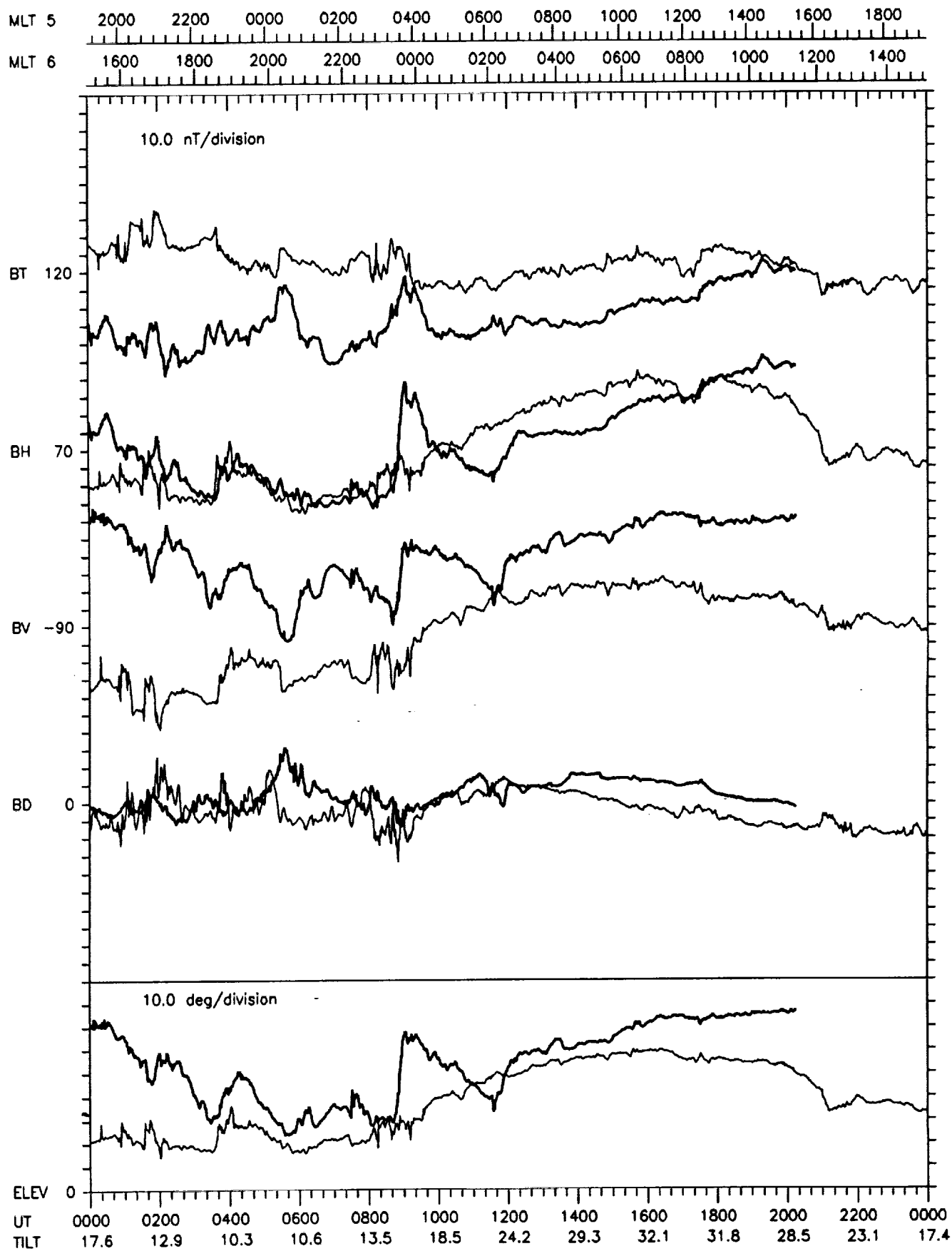
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY196 JUL 15  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)



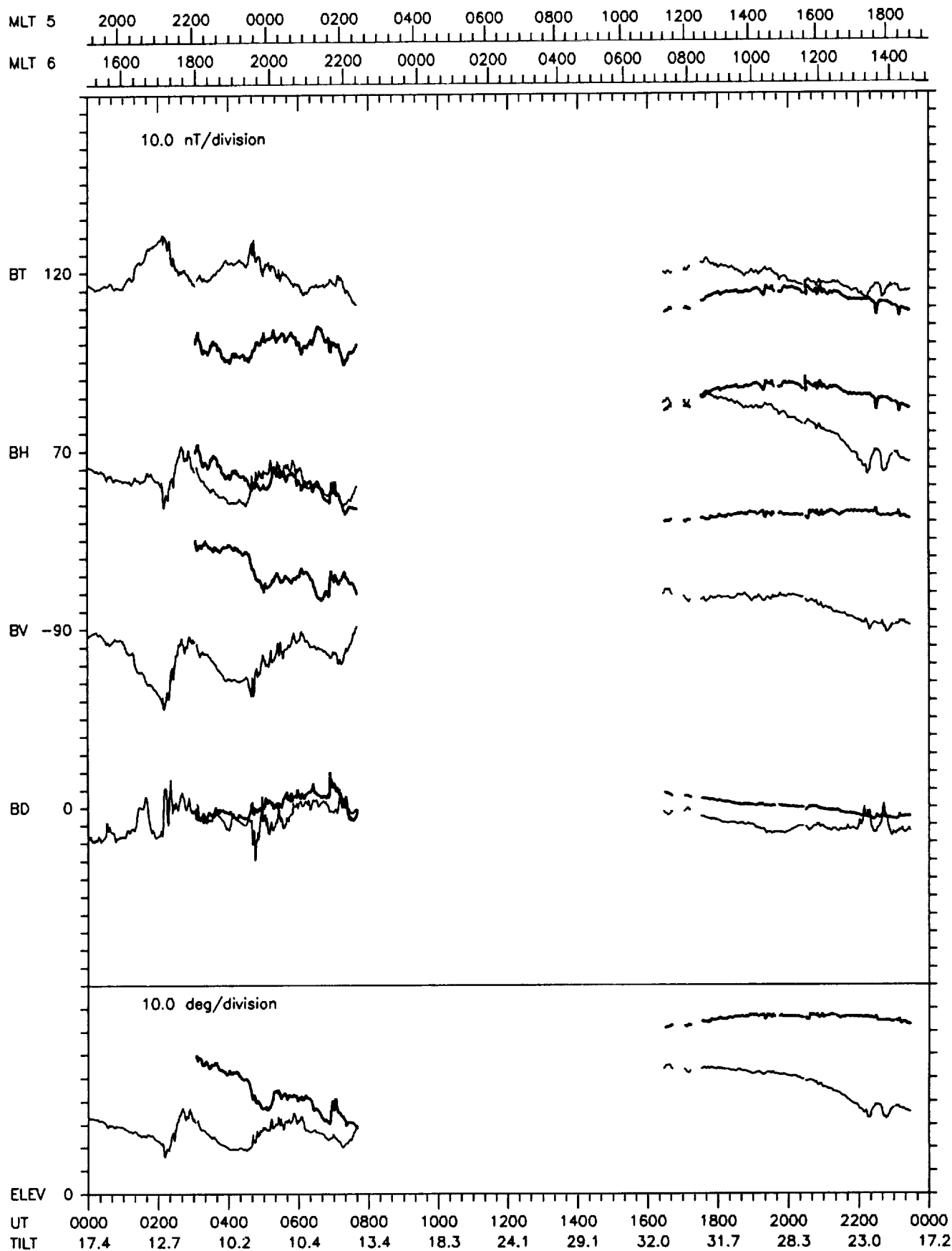
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY197 JUL 16  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)



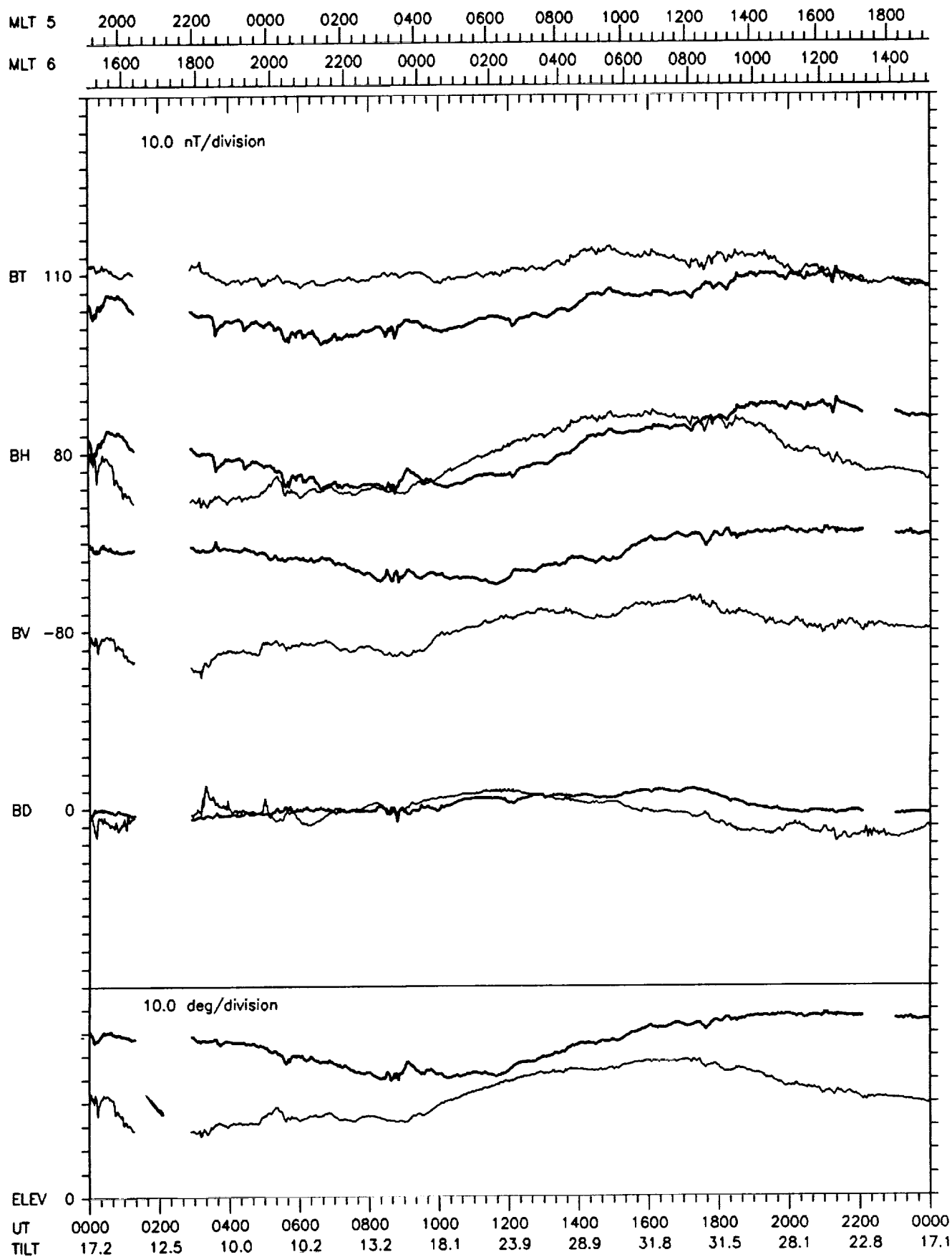
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY198 JUL 17  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY199 JUL 18  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)

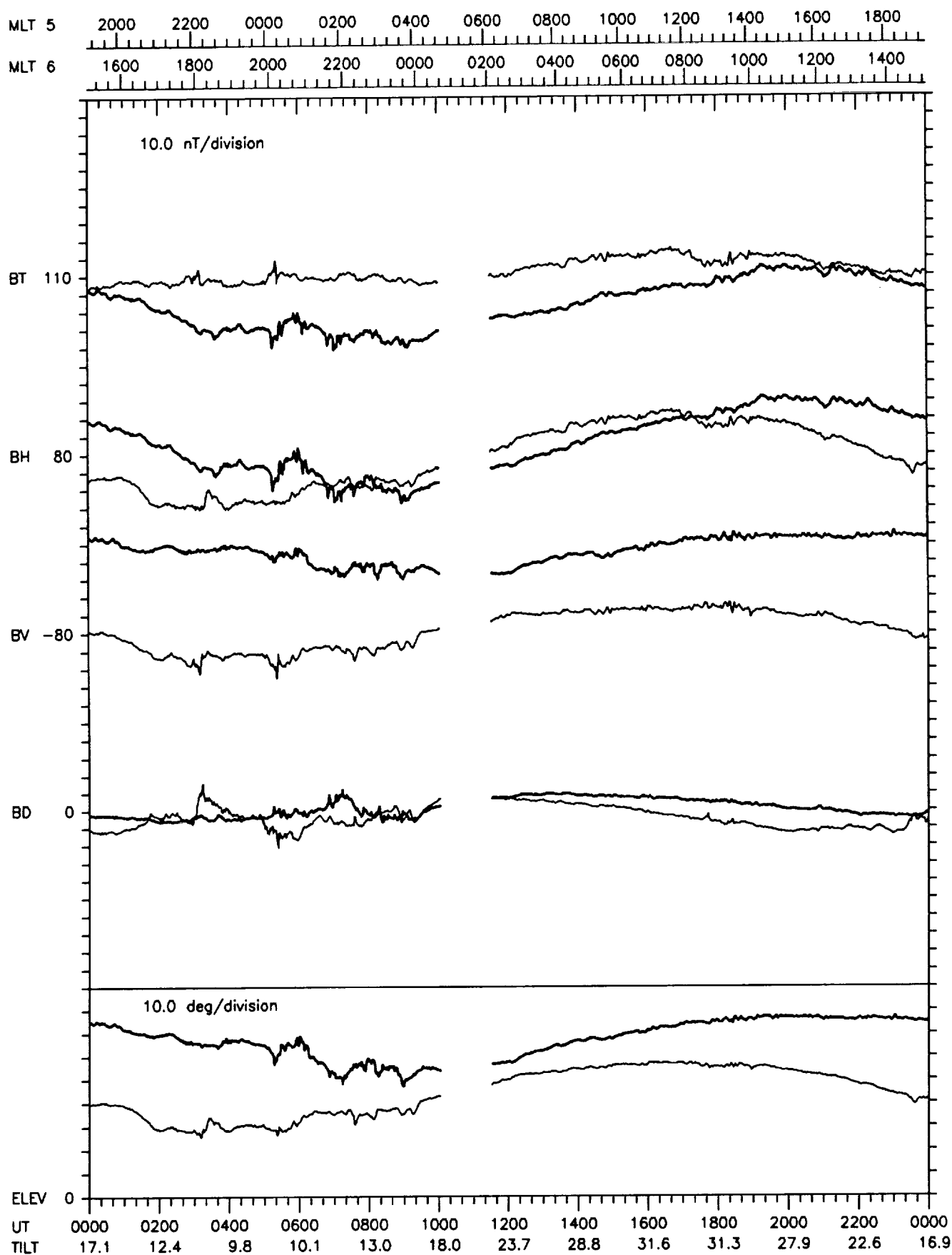


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY200 JUL 19  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)

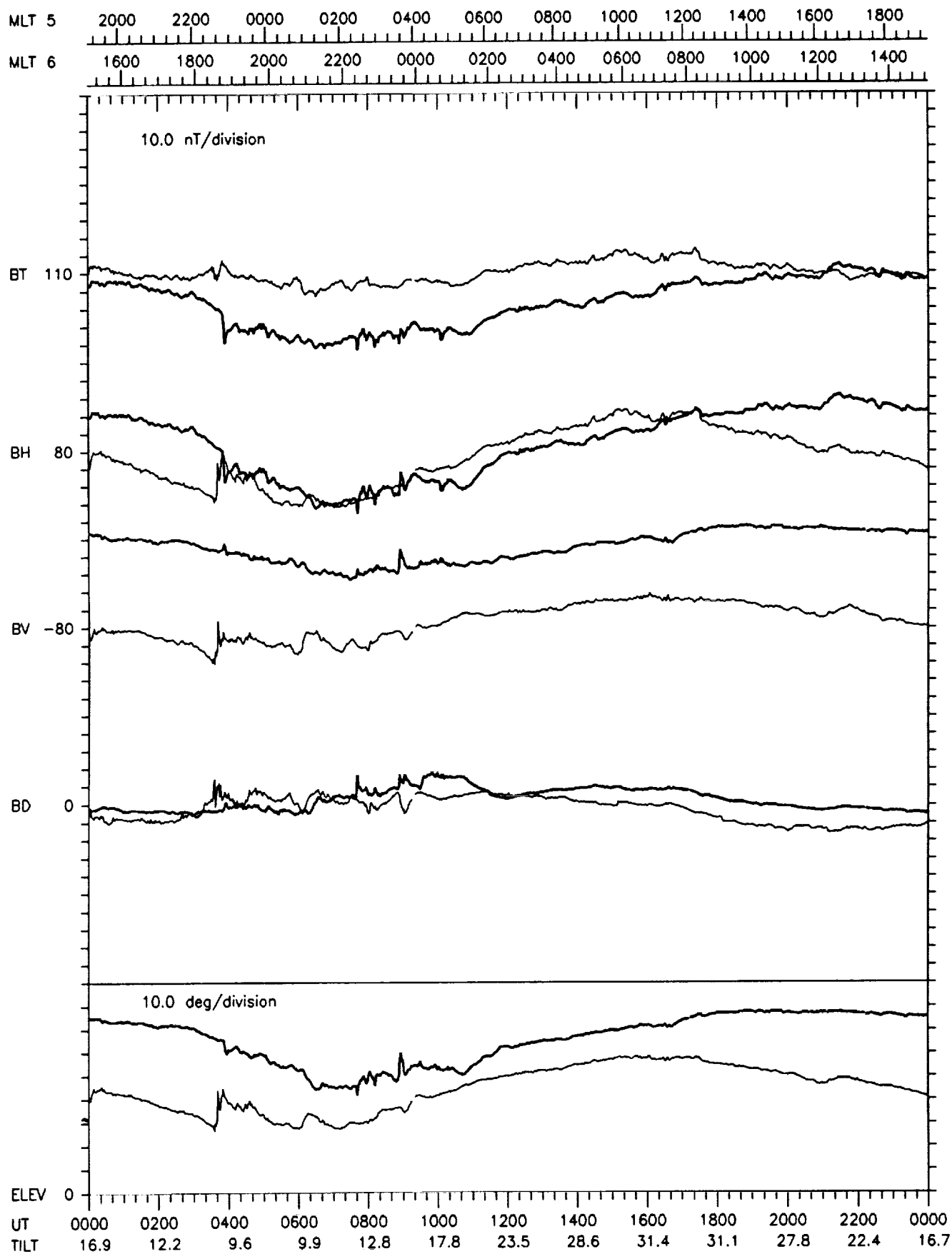




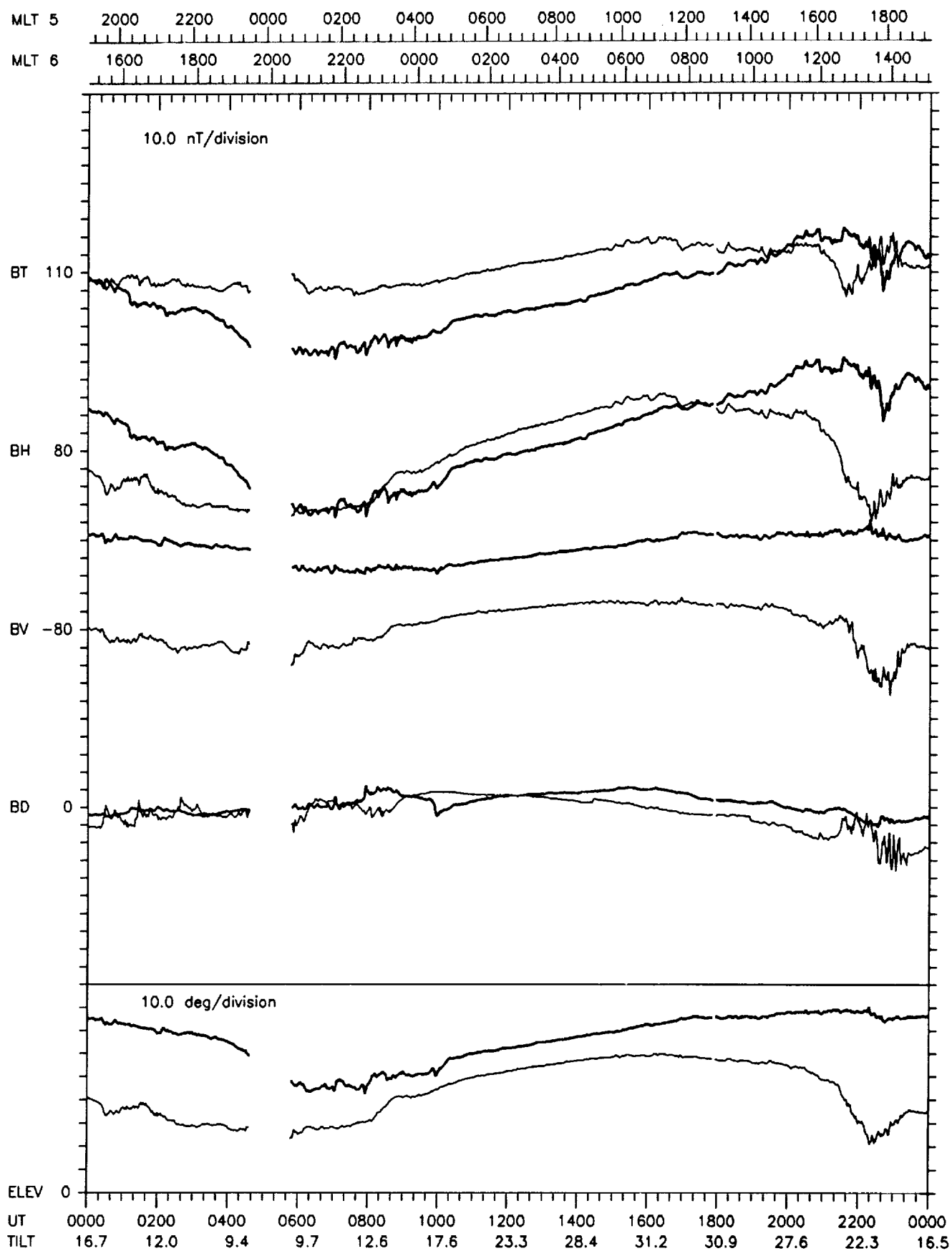
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY201 JUL 20  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



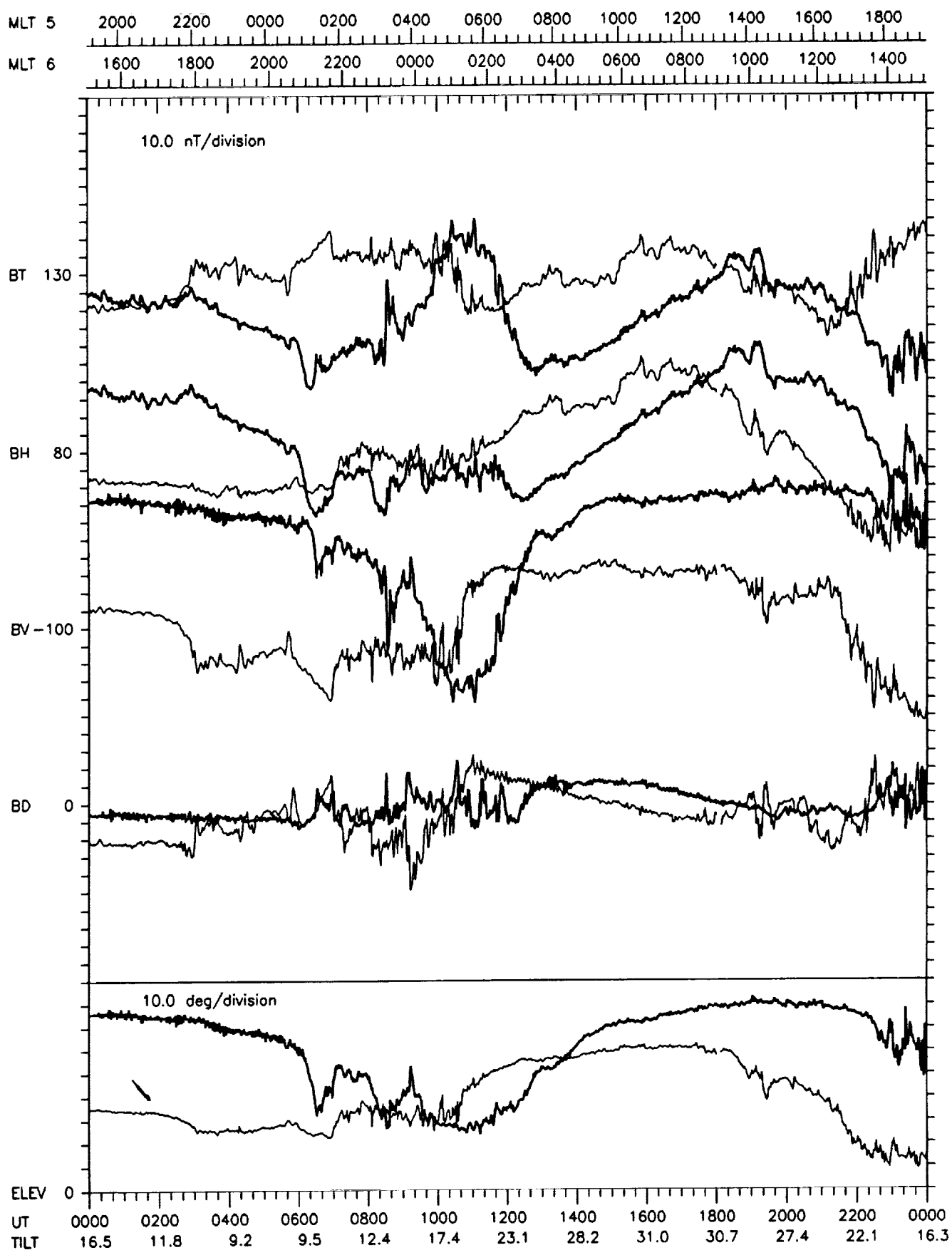
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY202 JUL 21  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



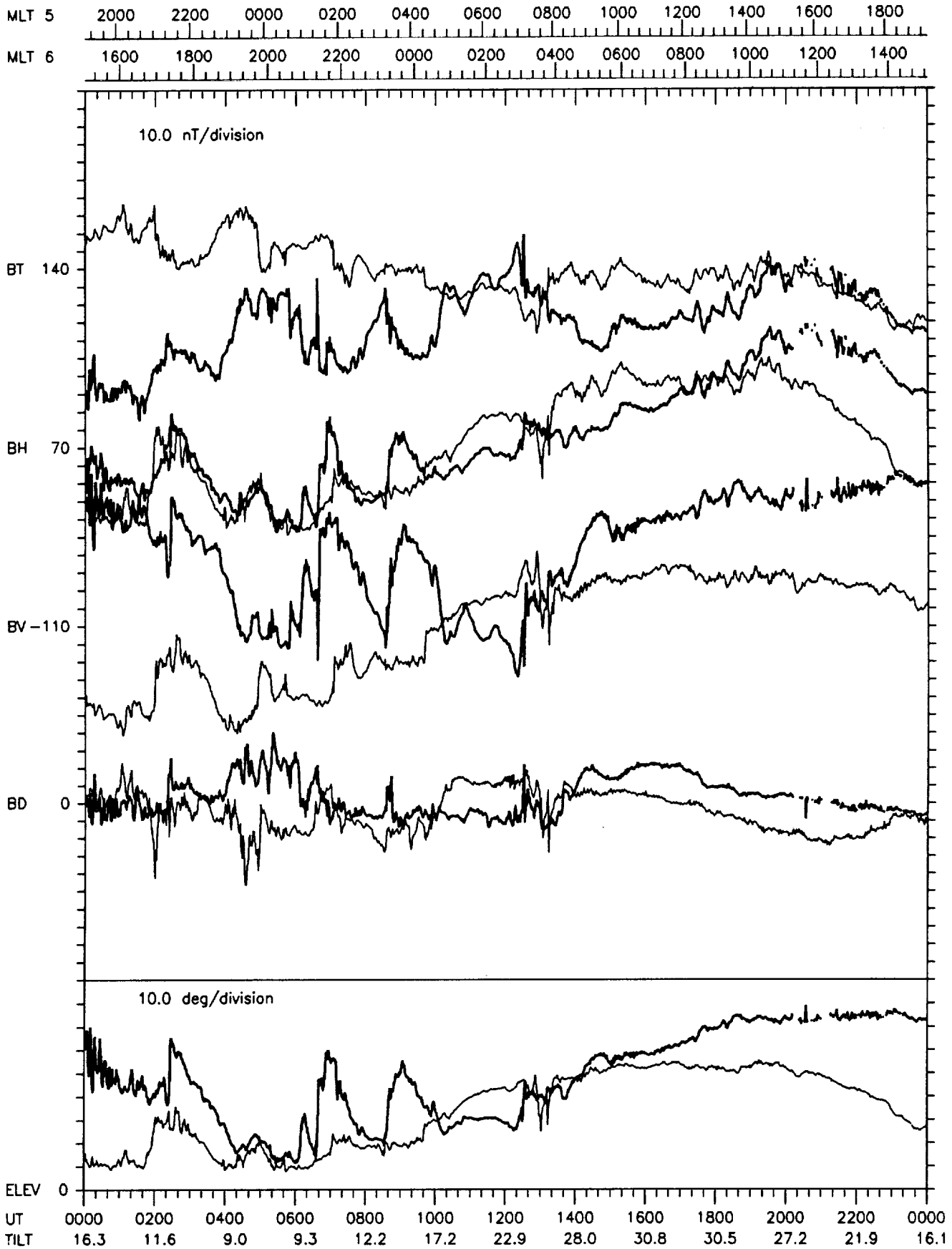
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY203 JUL 22  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



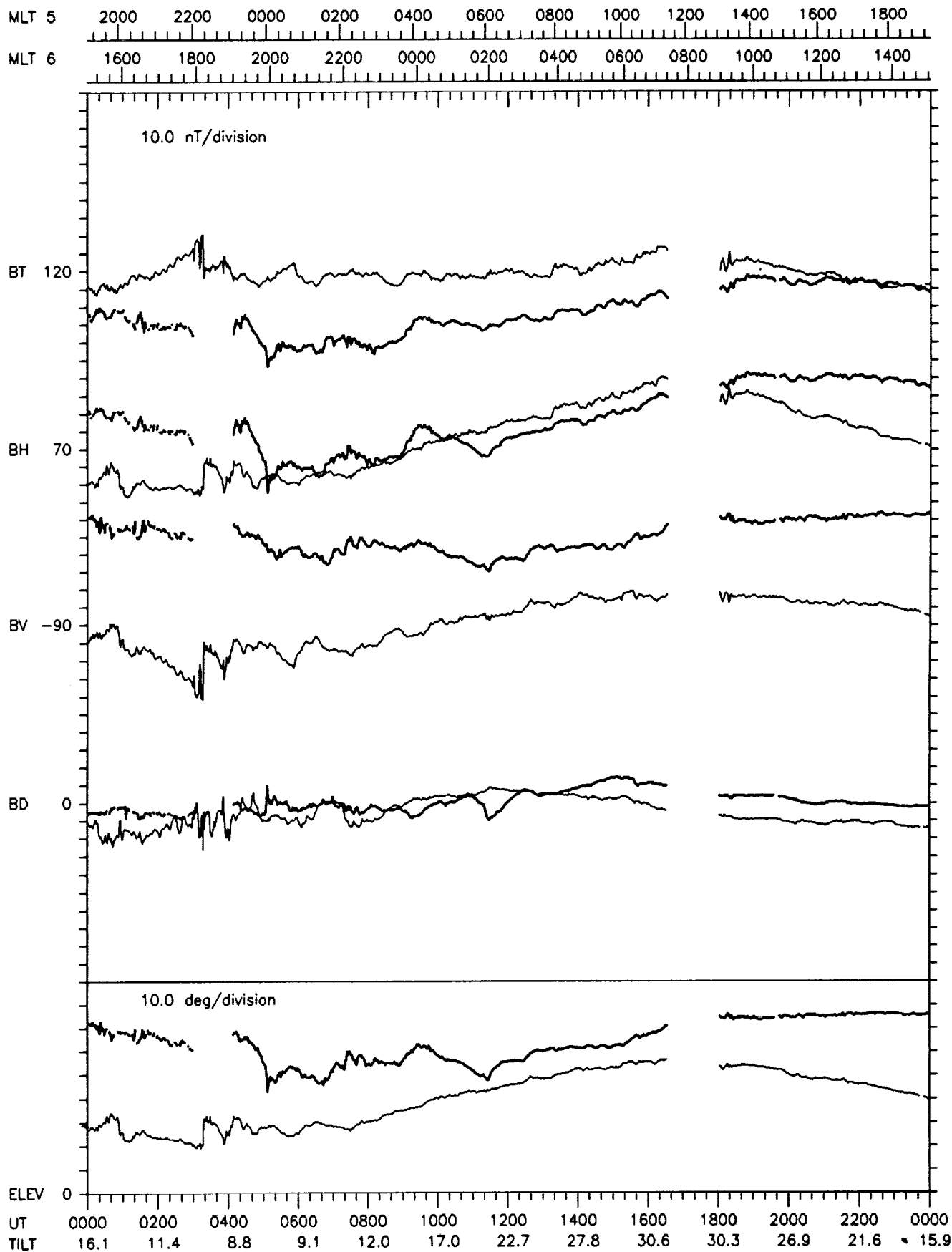
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY204 JUL 23  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



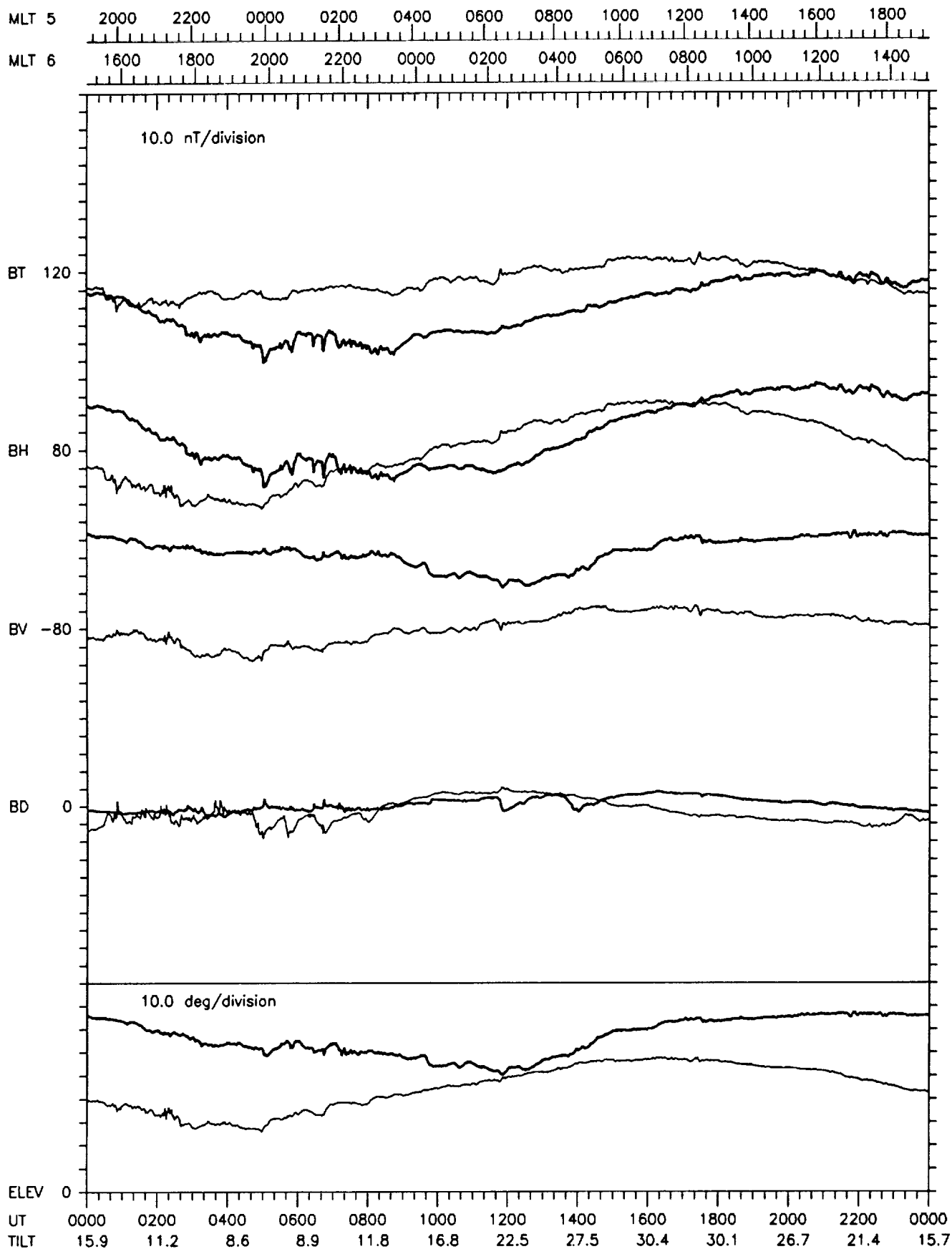
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY205 JUL 24  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



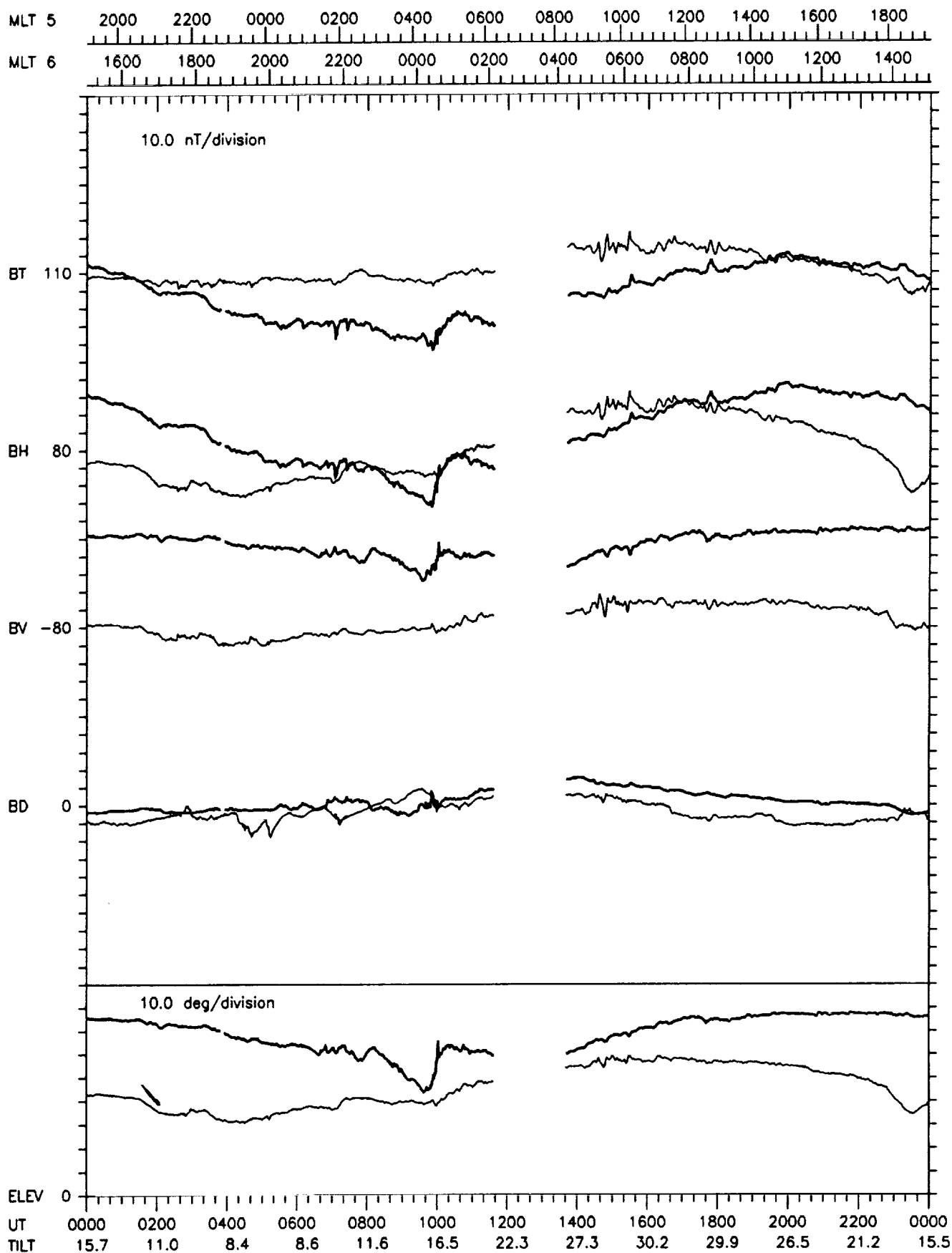
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY206 JUL 25  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY207 JUL 26  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

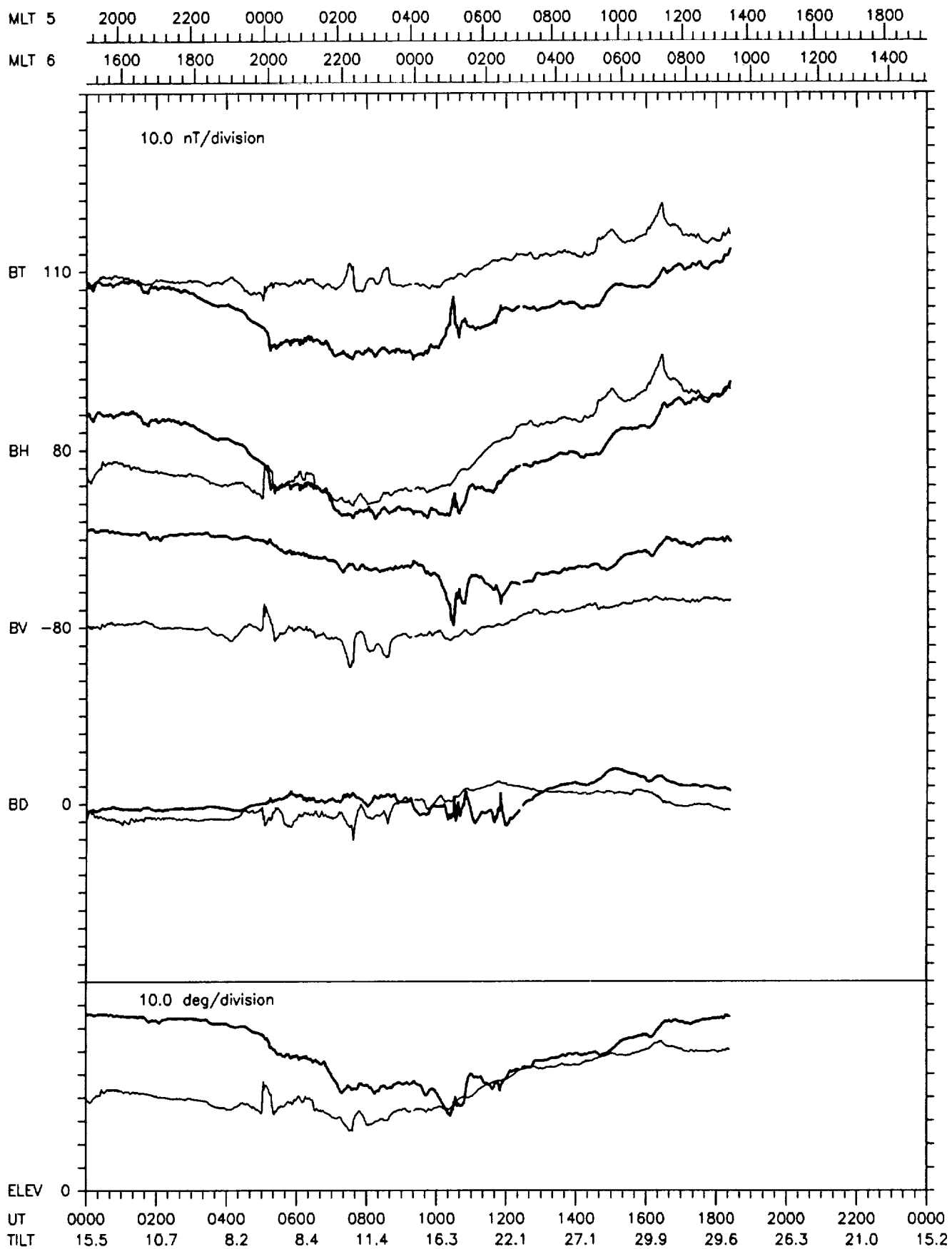


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY208 JUL 27  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

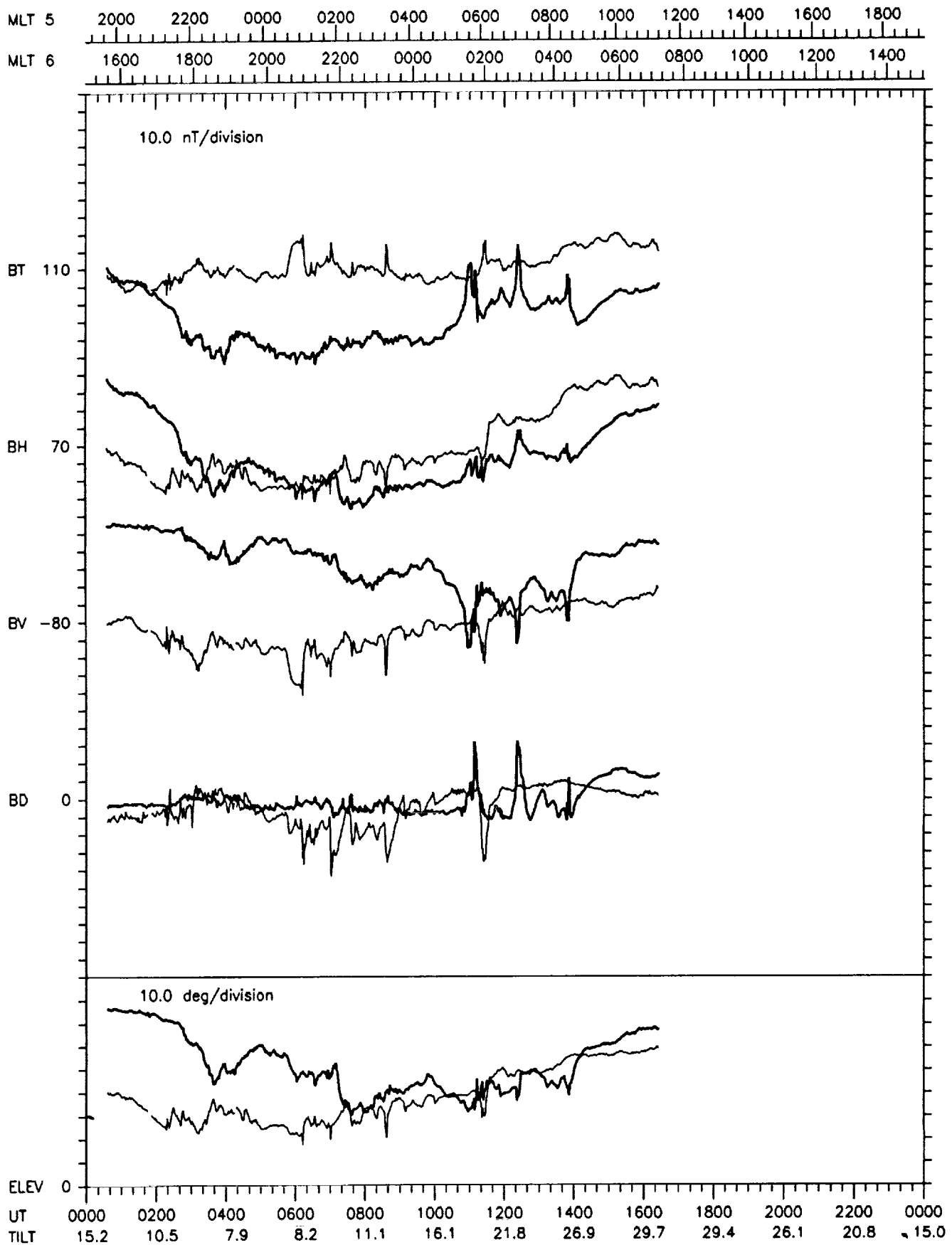




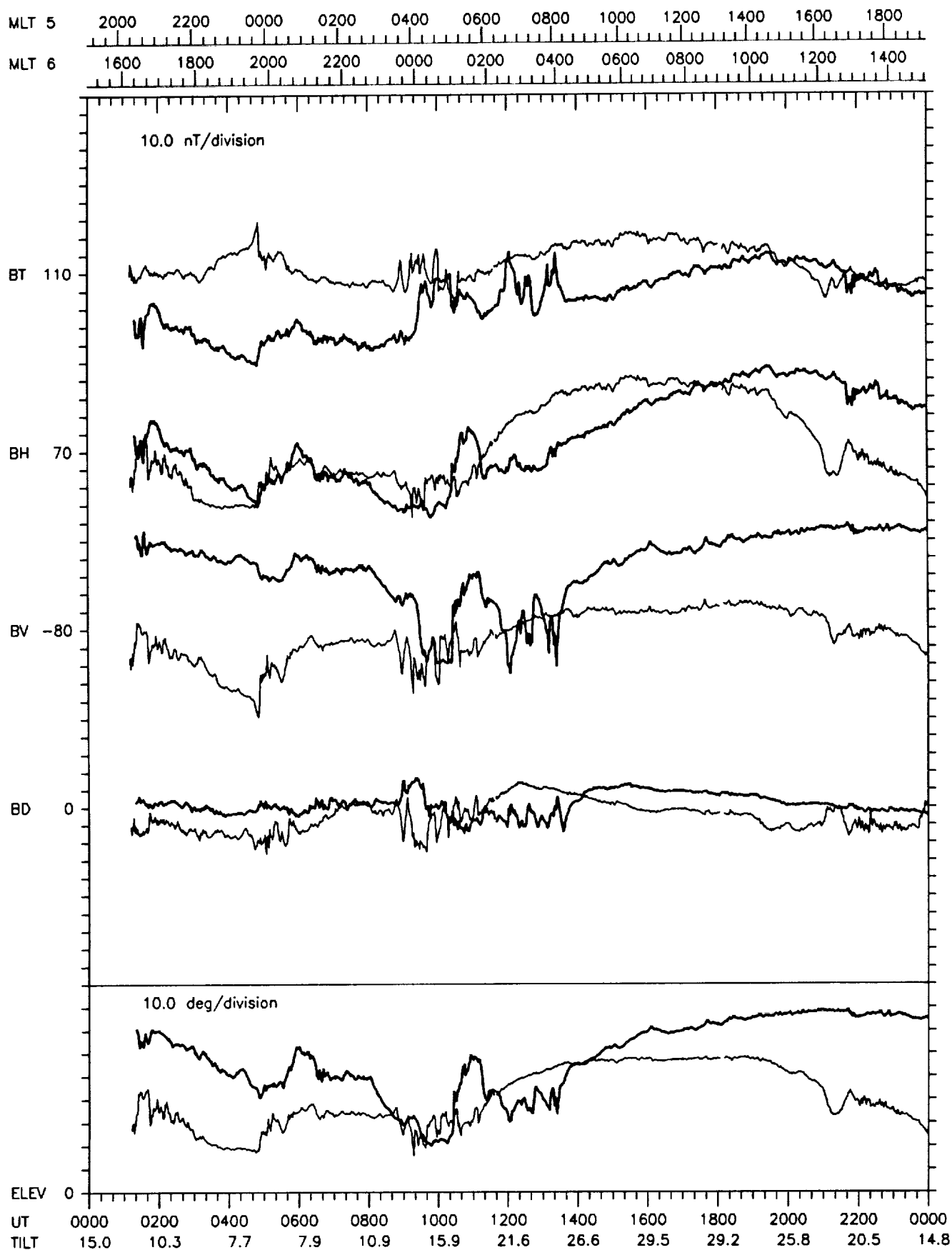
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY209 JUL 28  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



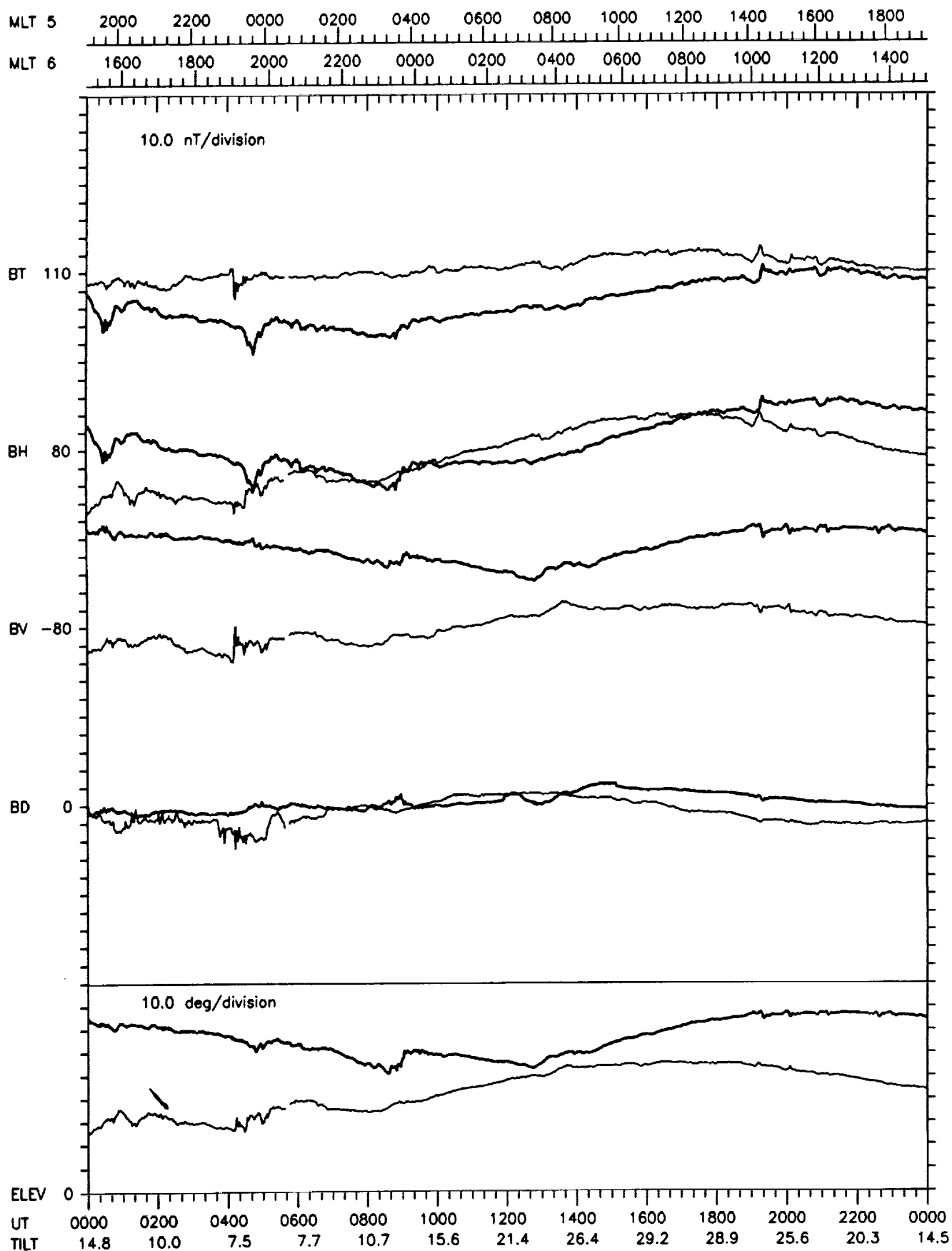
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY210 JUL 29  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



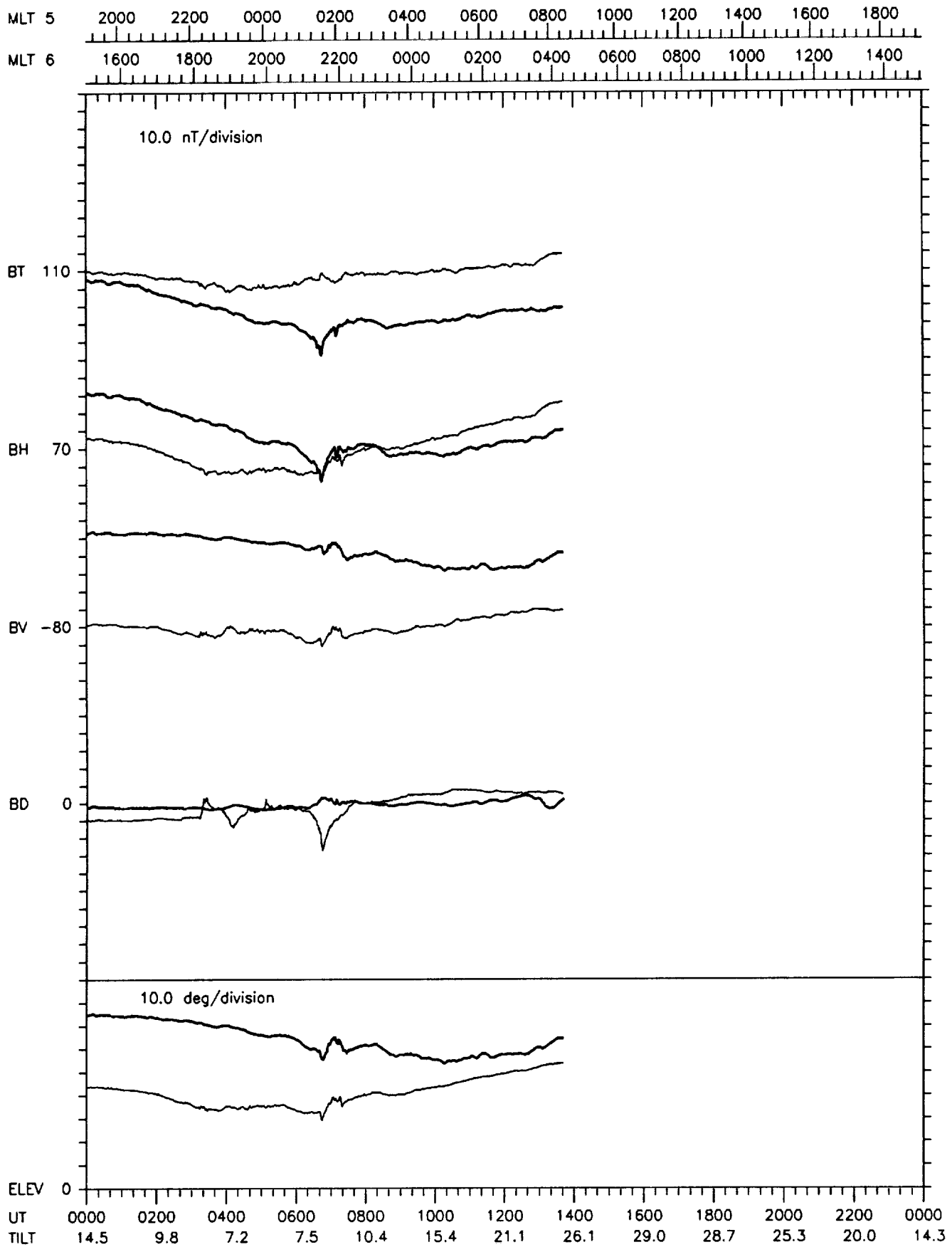
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY211 JUL 30  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



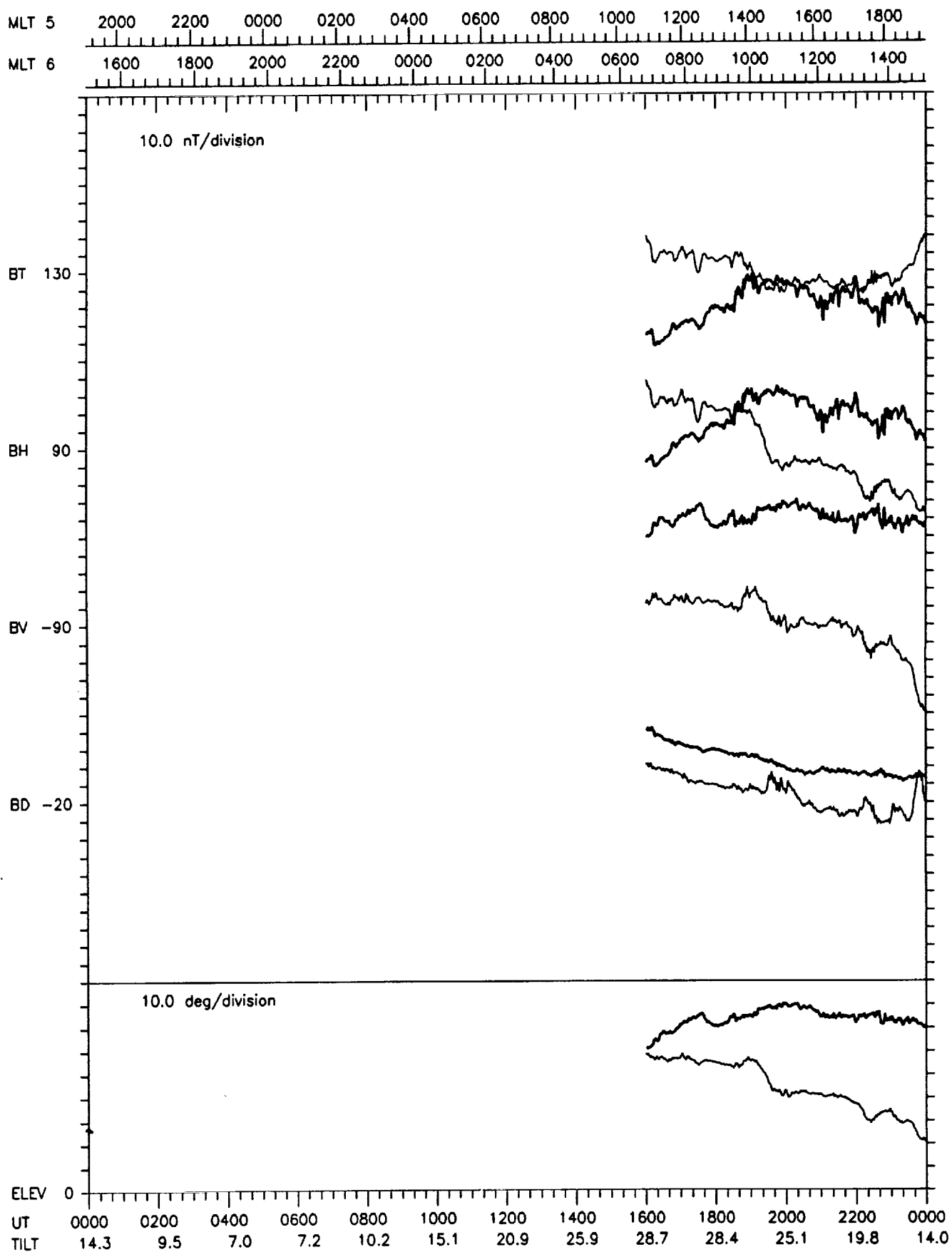
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY212 JUL 31  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



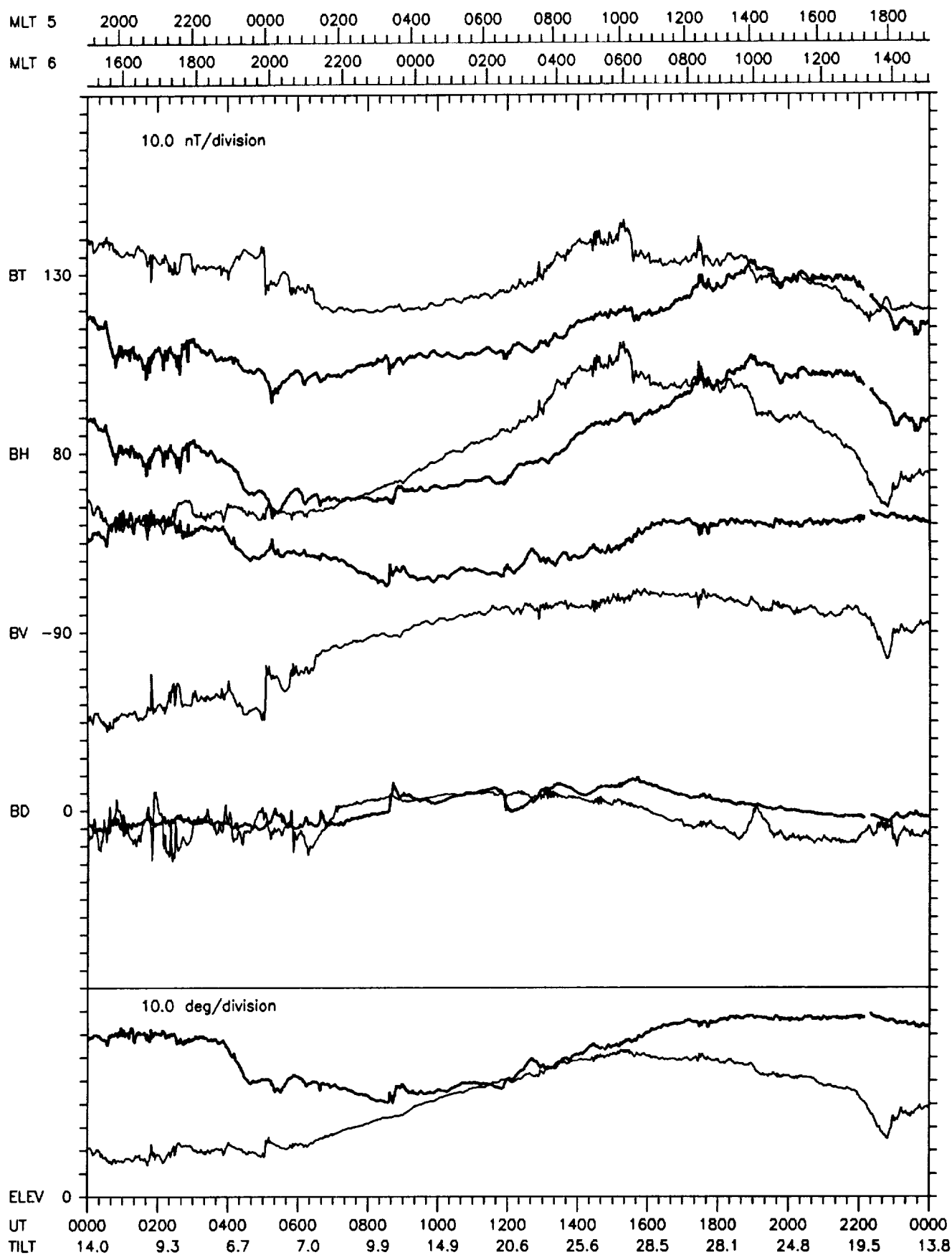
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY213 AUG 1  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



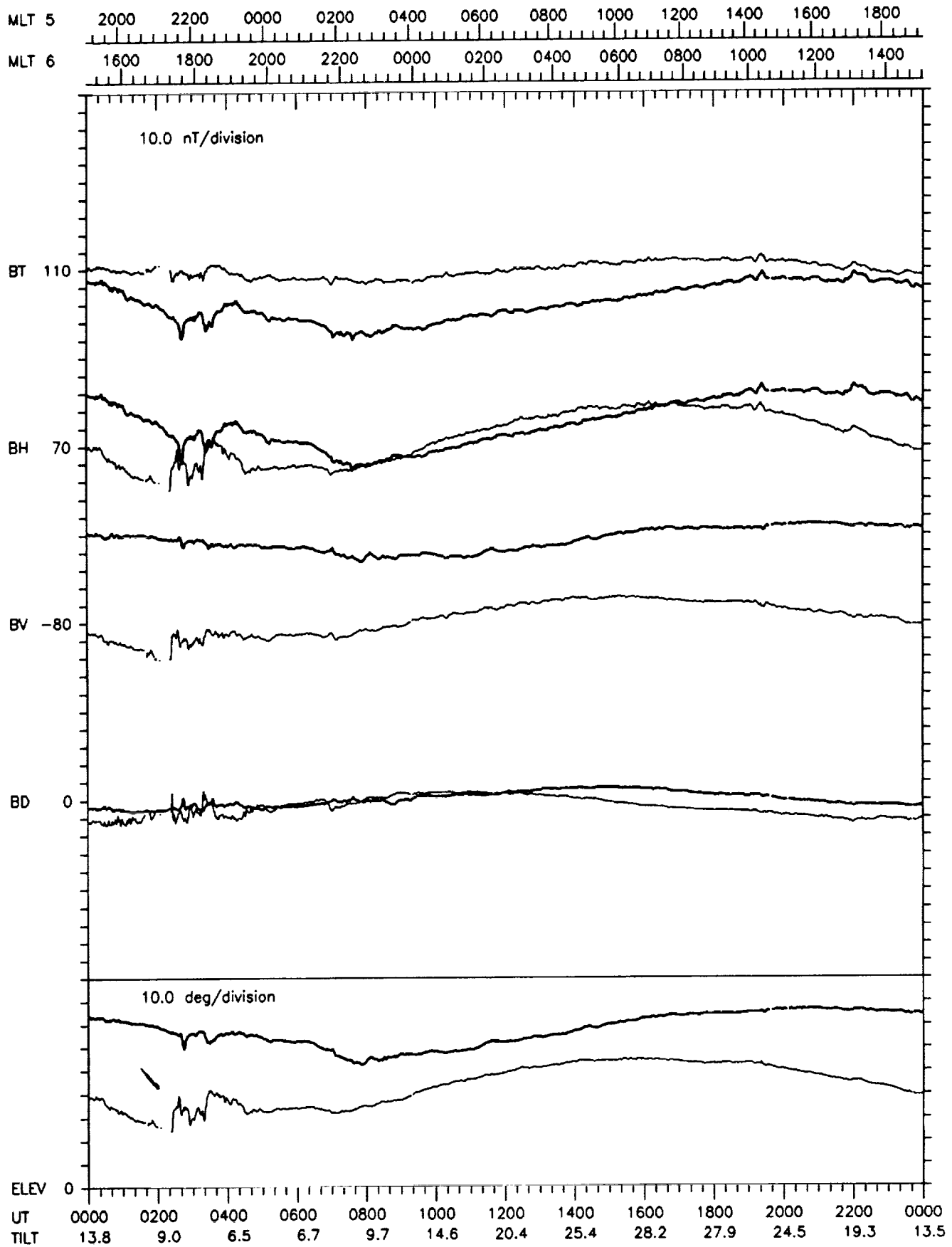
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY214 AUG 2  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY215 AUG 3  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

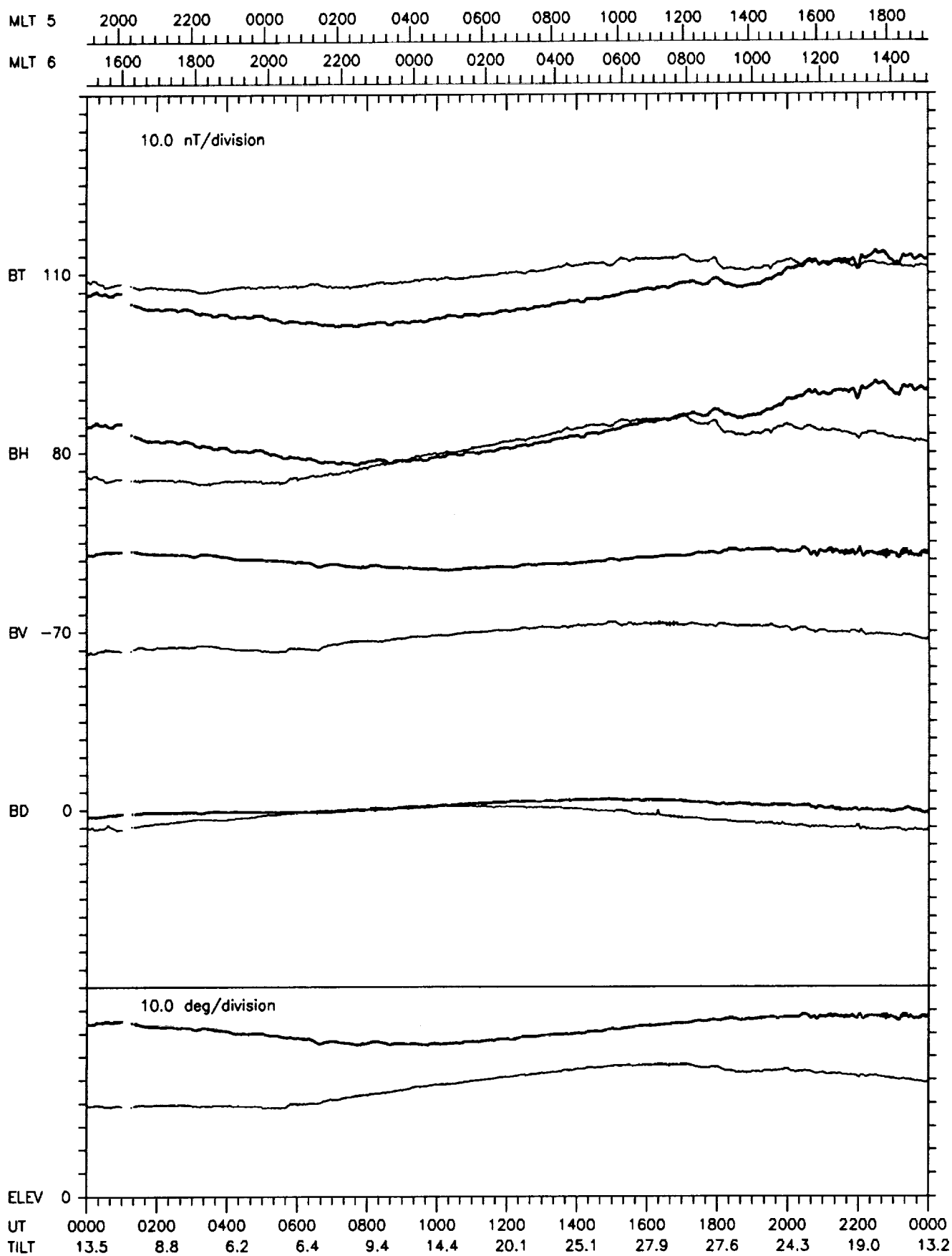


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY216 AUG 4  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

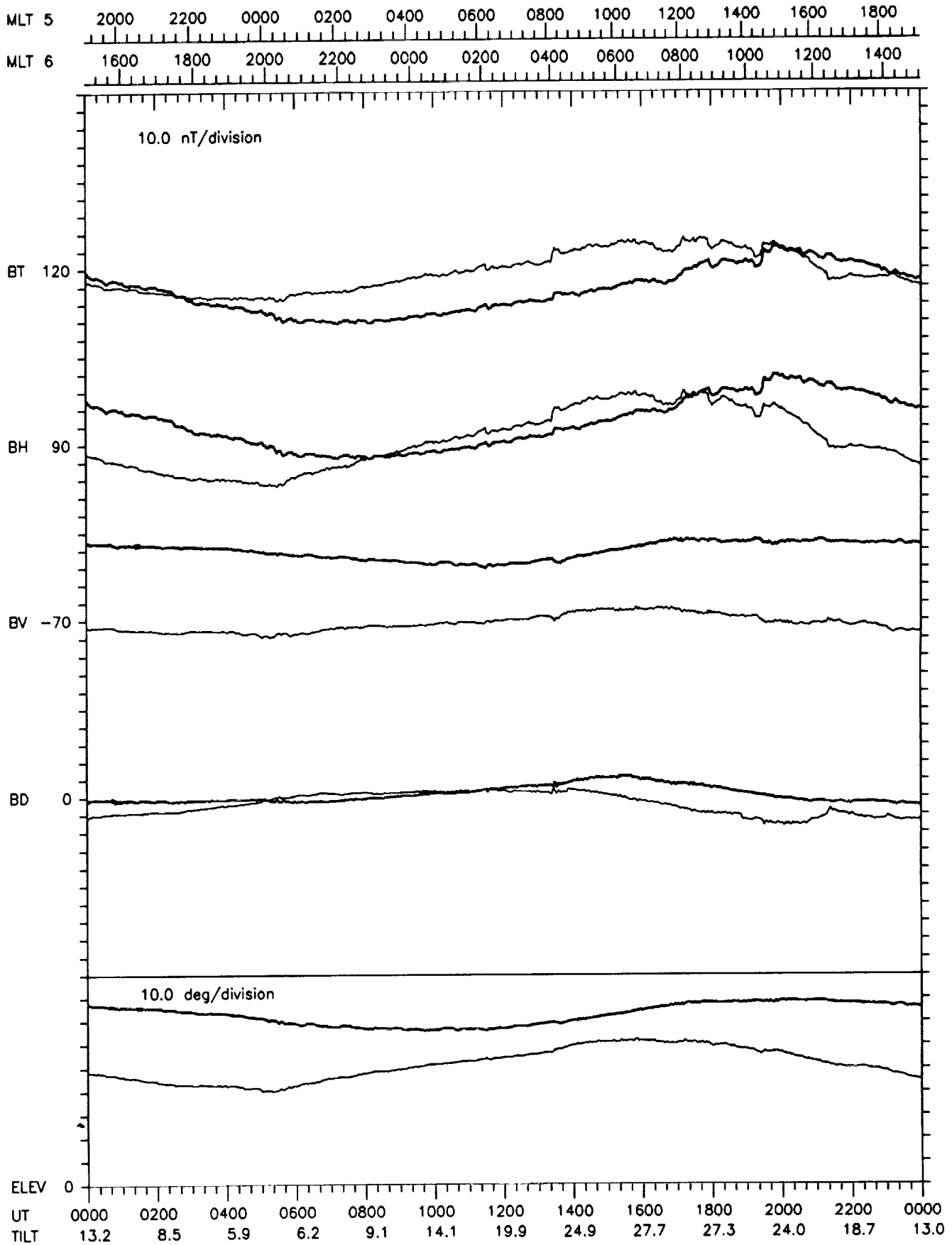




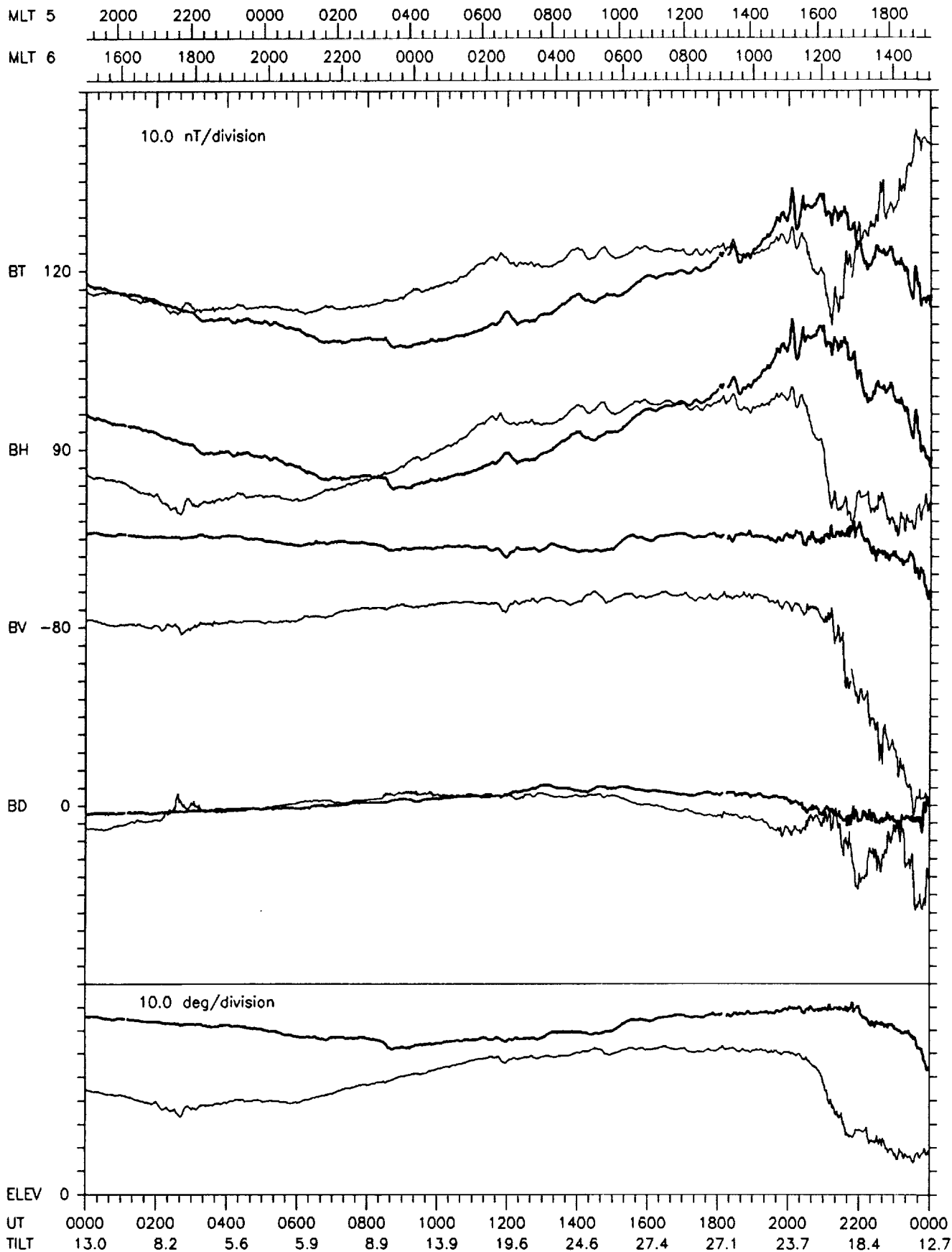
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY217 AUG 5  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



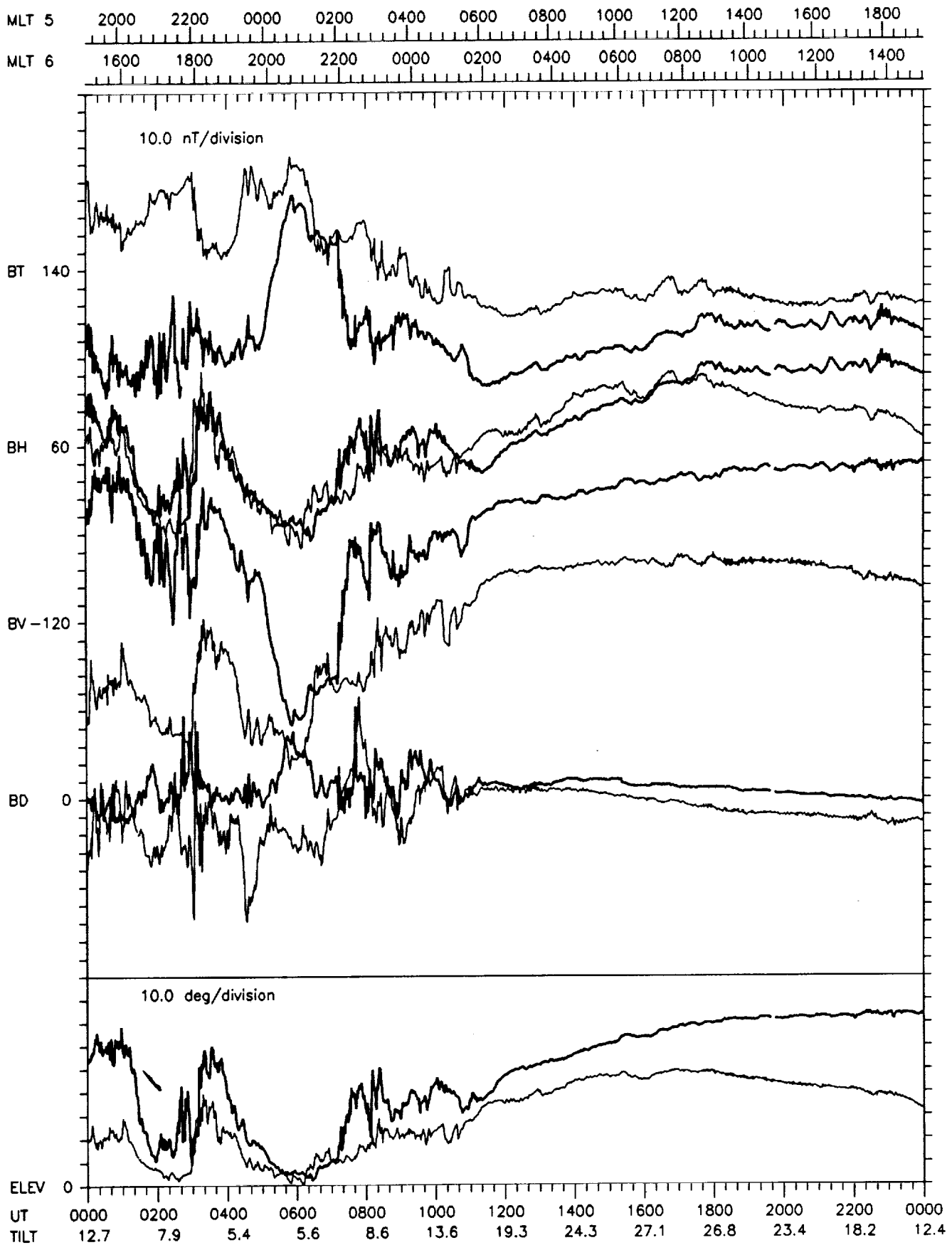
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY218 AUG 6  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



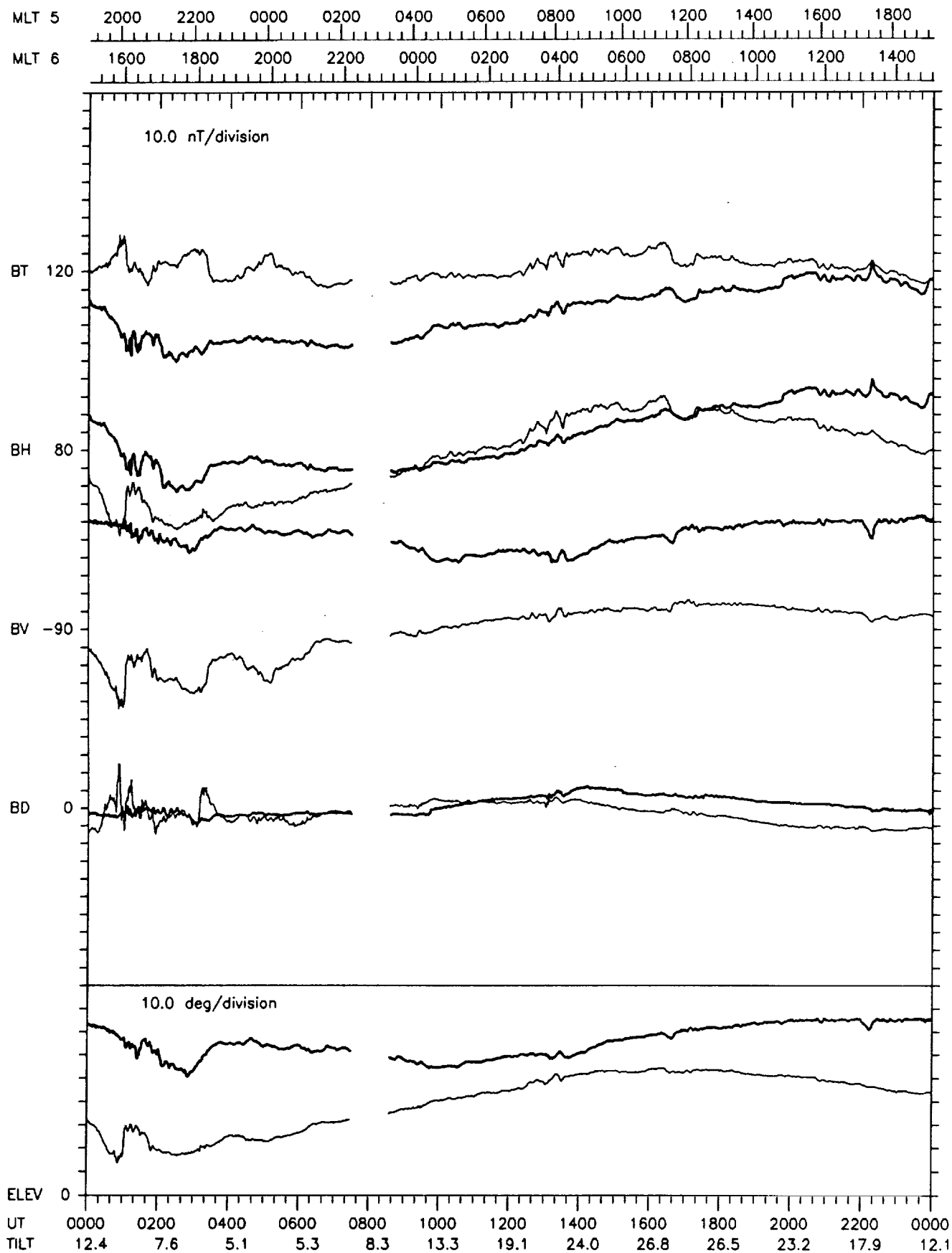
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY219 AUG 7  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



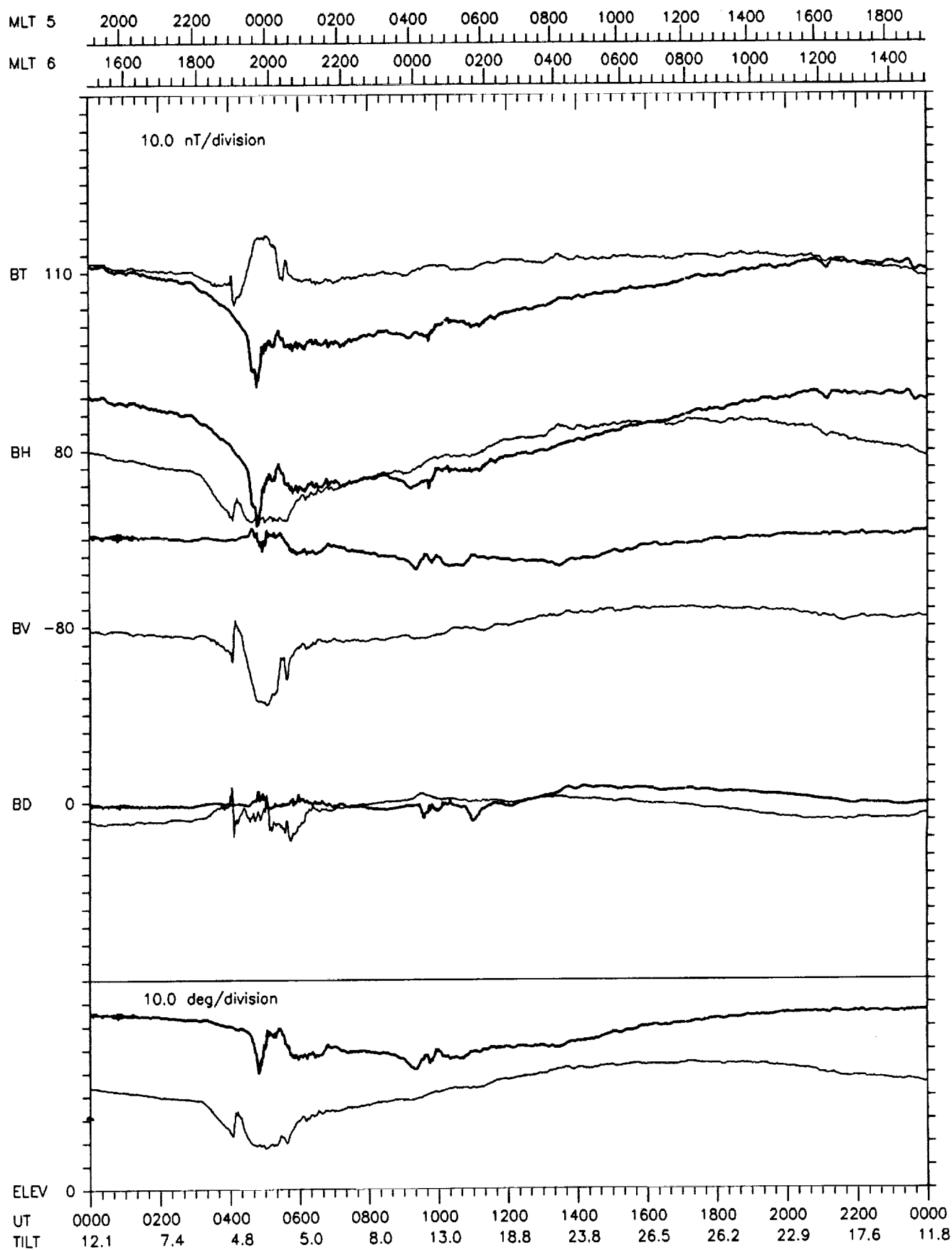
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY220 AUG 8  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY221 AUG 9  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

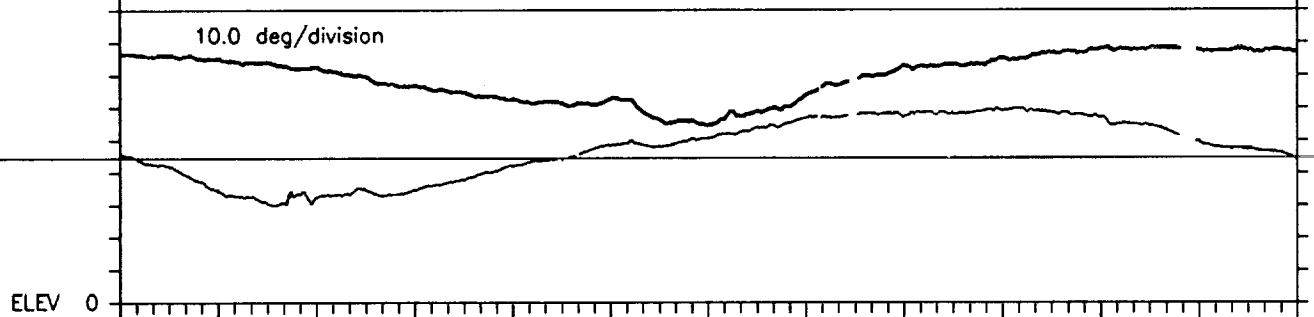
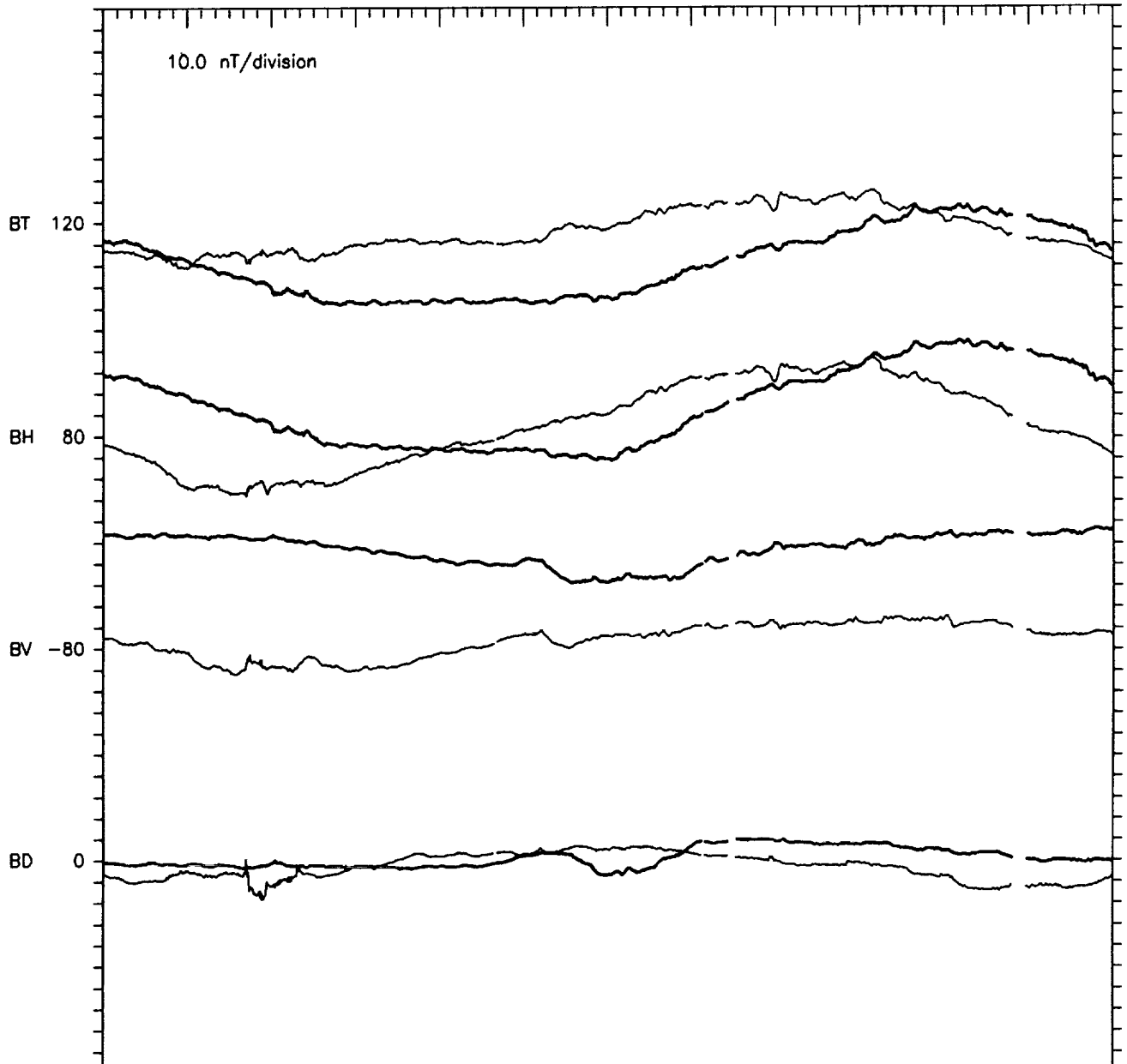


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY222 AUG 10  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



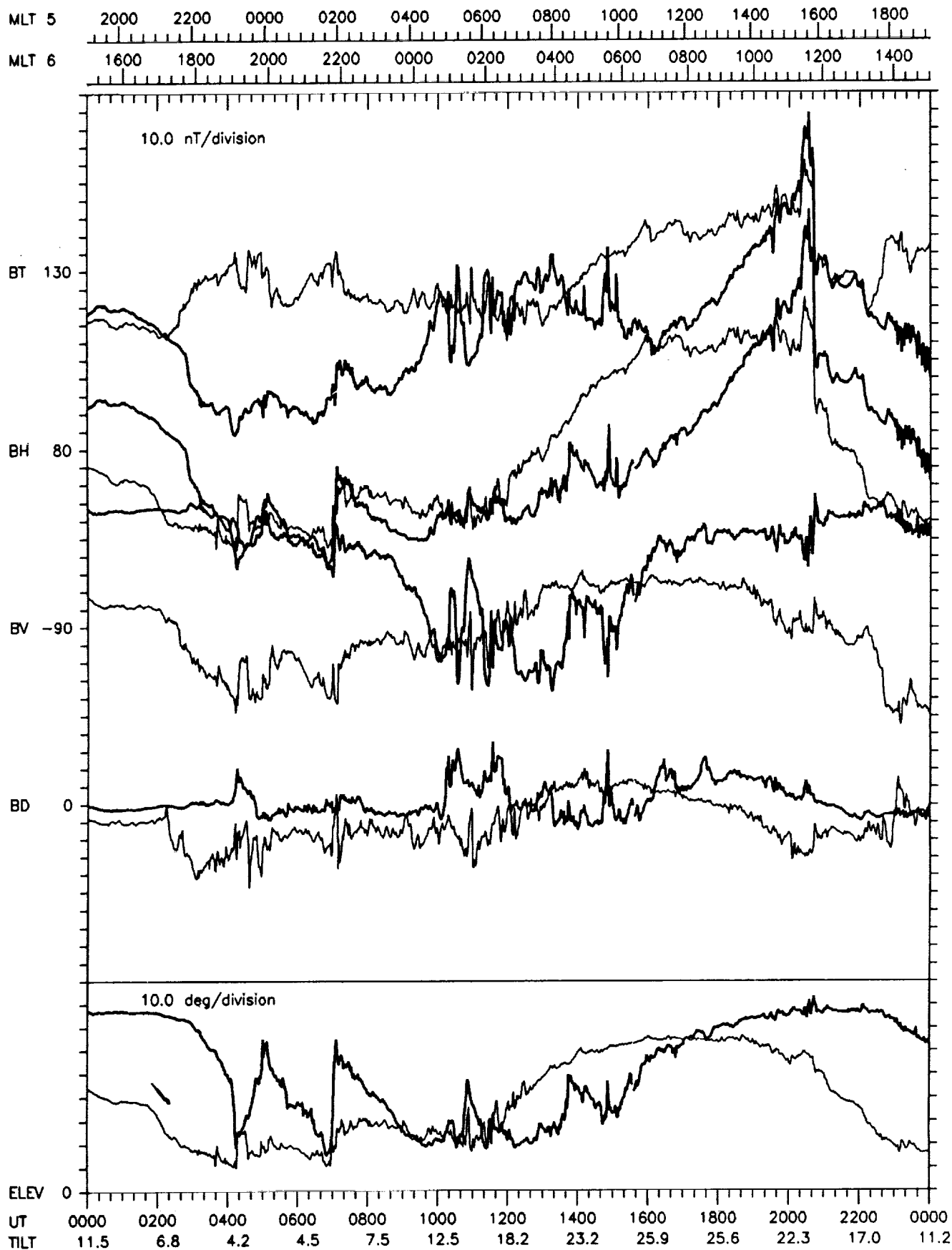
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY223 AUG 11  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

MLT 5 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800  
 MLT 6 1600 1800 2000 2200 0000 0200 0400 0600 0800 1000 1200 1400



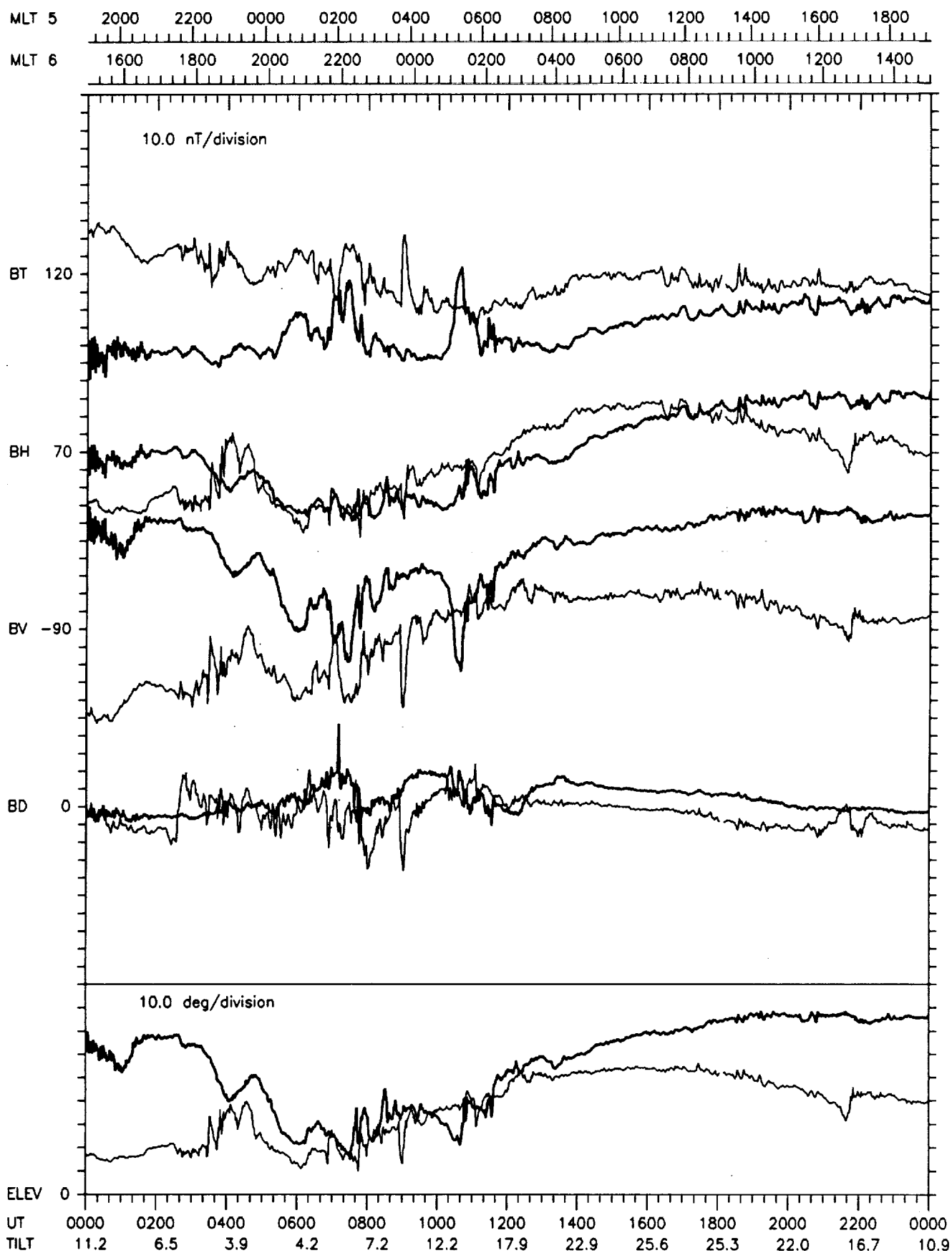
UT 0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000  
 TILT 11.8 7.1 4.5 4.8 7.8 12.8 18.5 23.5 26.2 25.9 22.6 17.3 11.5

GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY224 AUG 12  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)

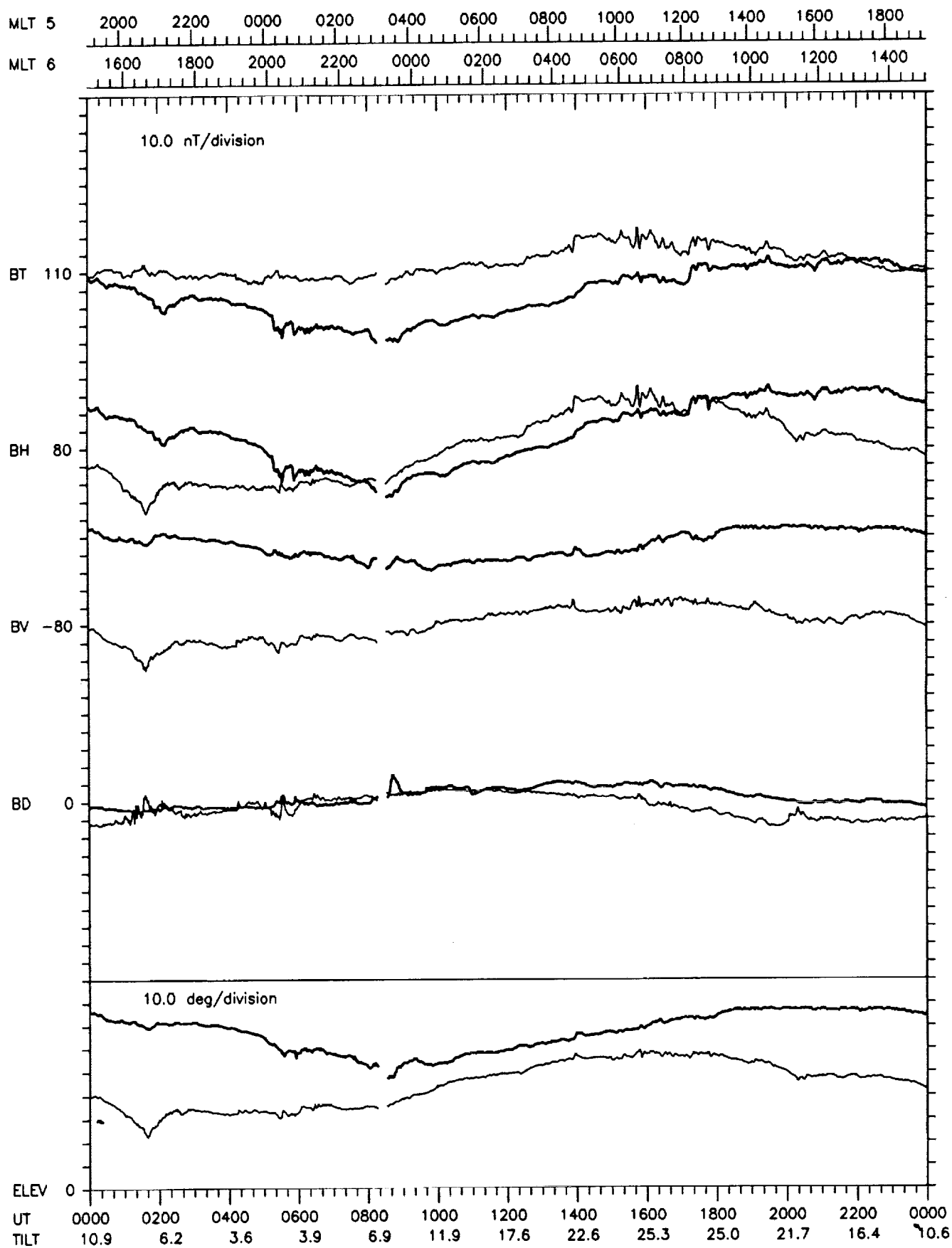




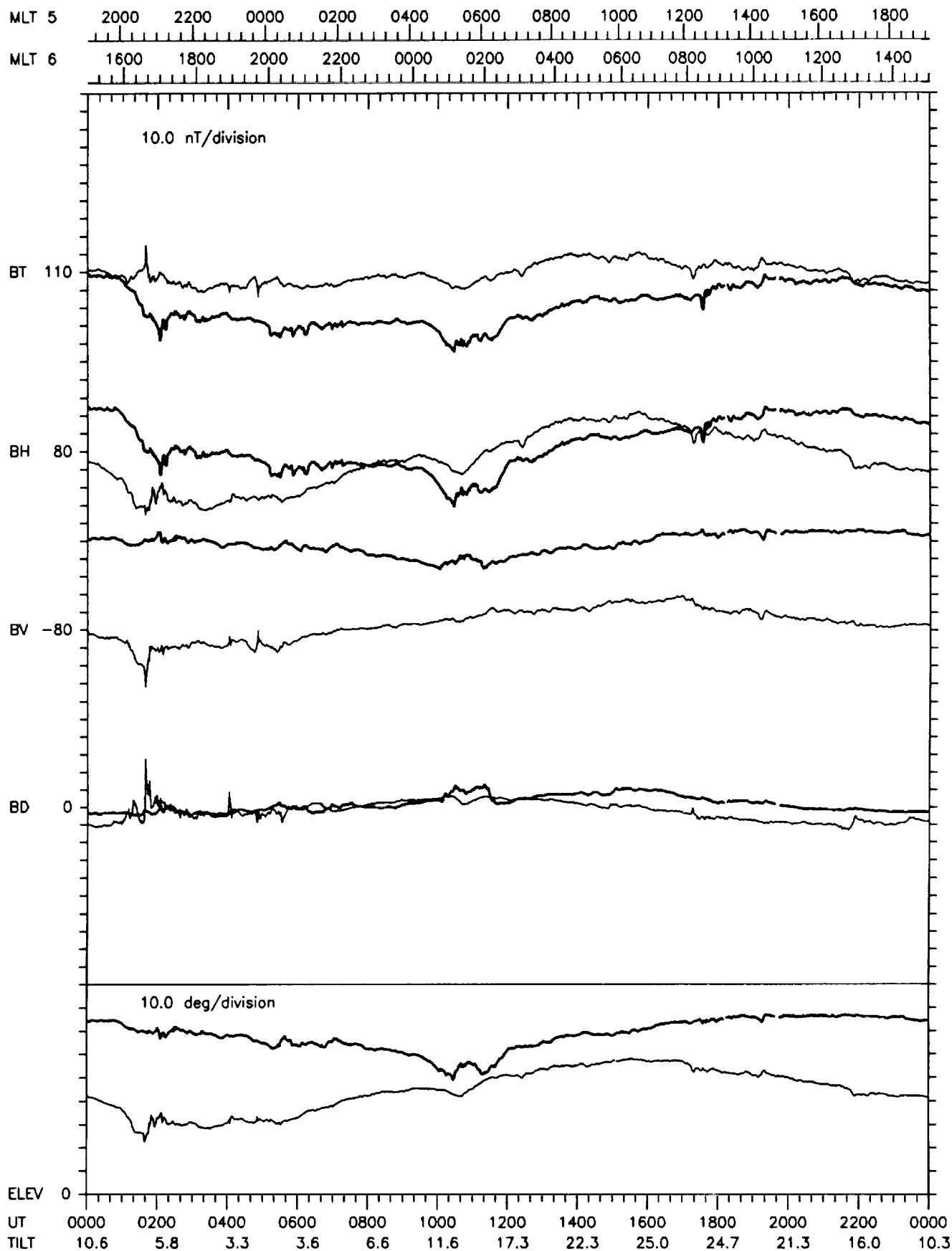
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY225 AUG 13  
 GEOLON, MAGLAT = 5( -74.1, 11.2) 6(-135.4, 4.8)



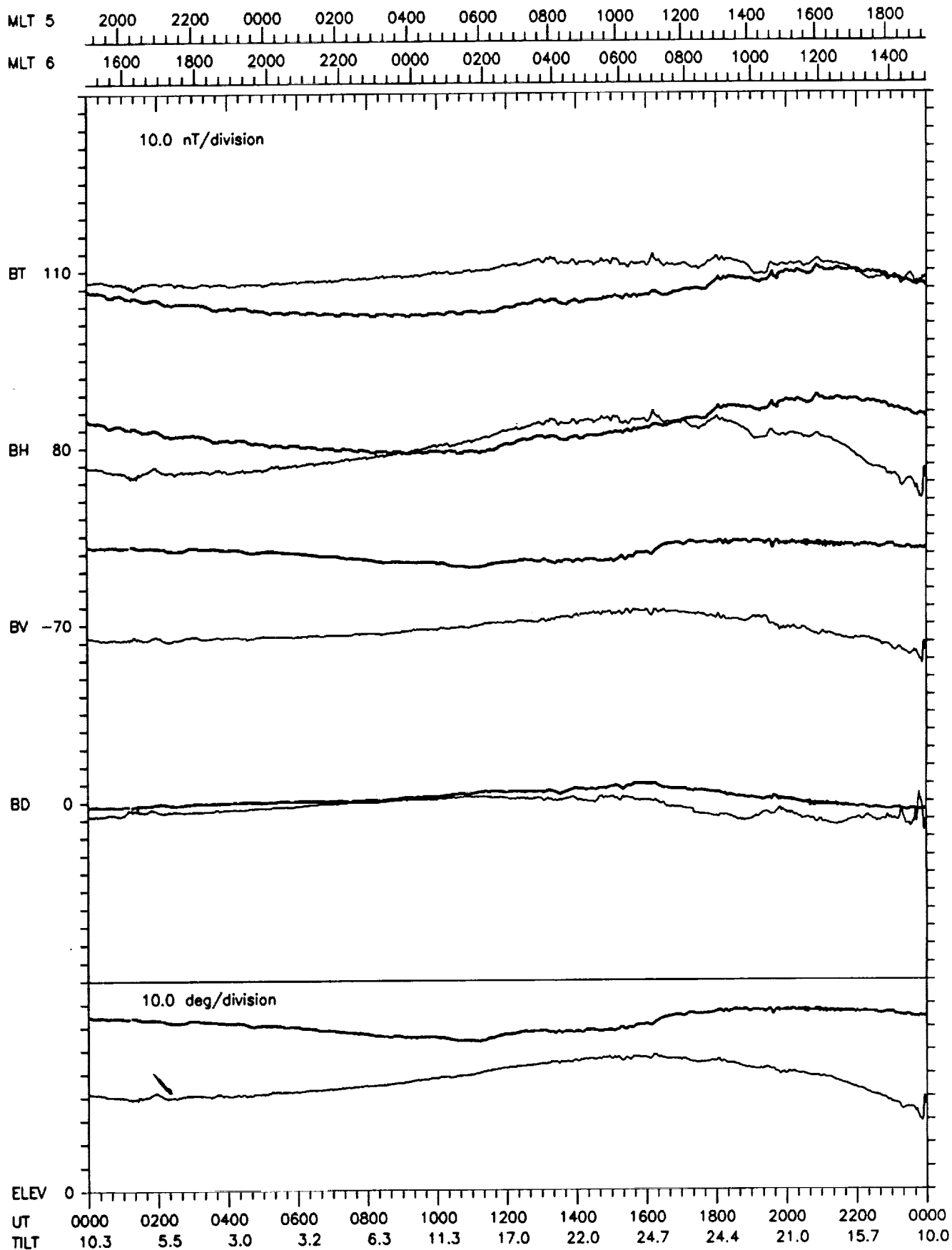
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY226 AUG 14  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



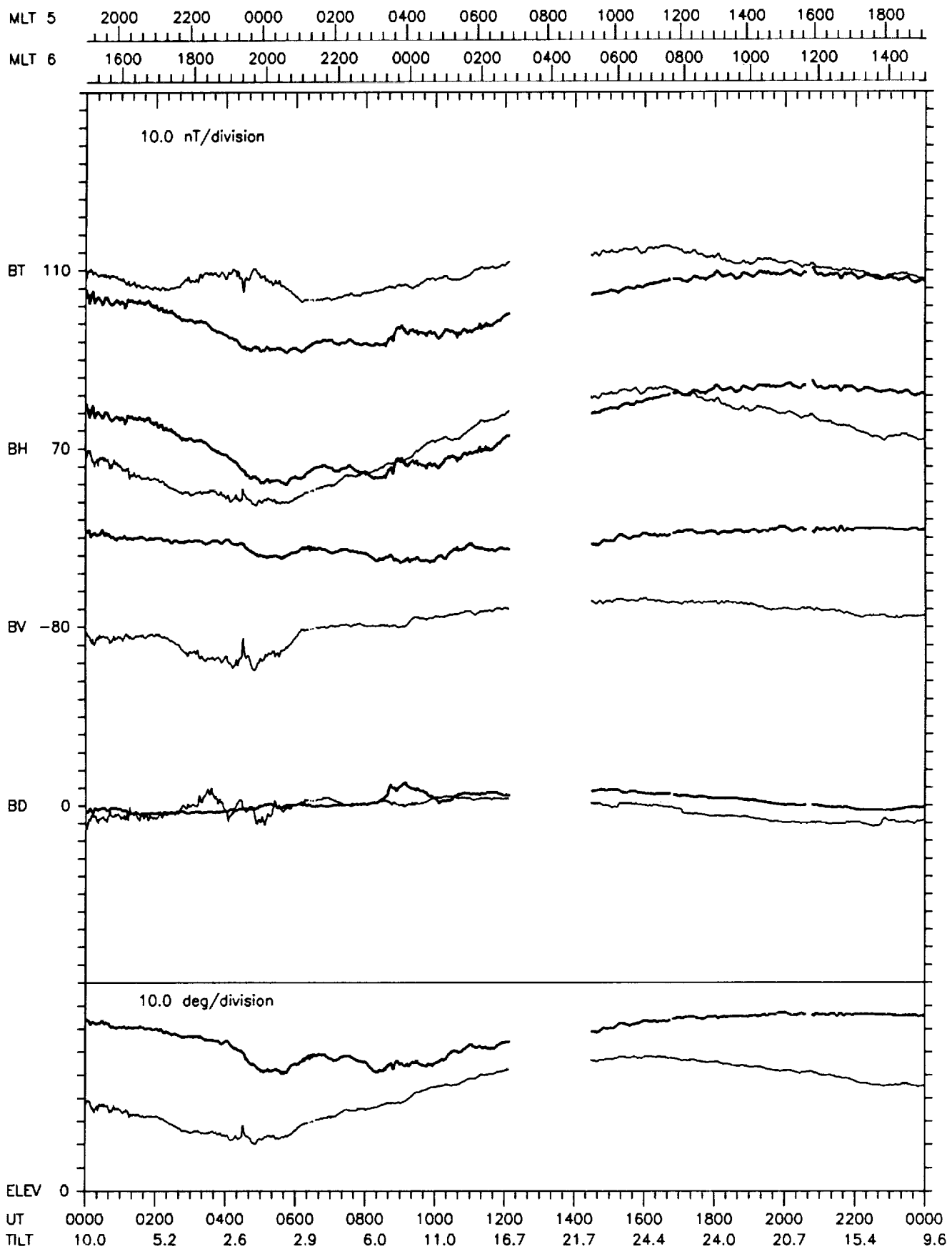
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY227 AUG 15  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



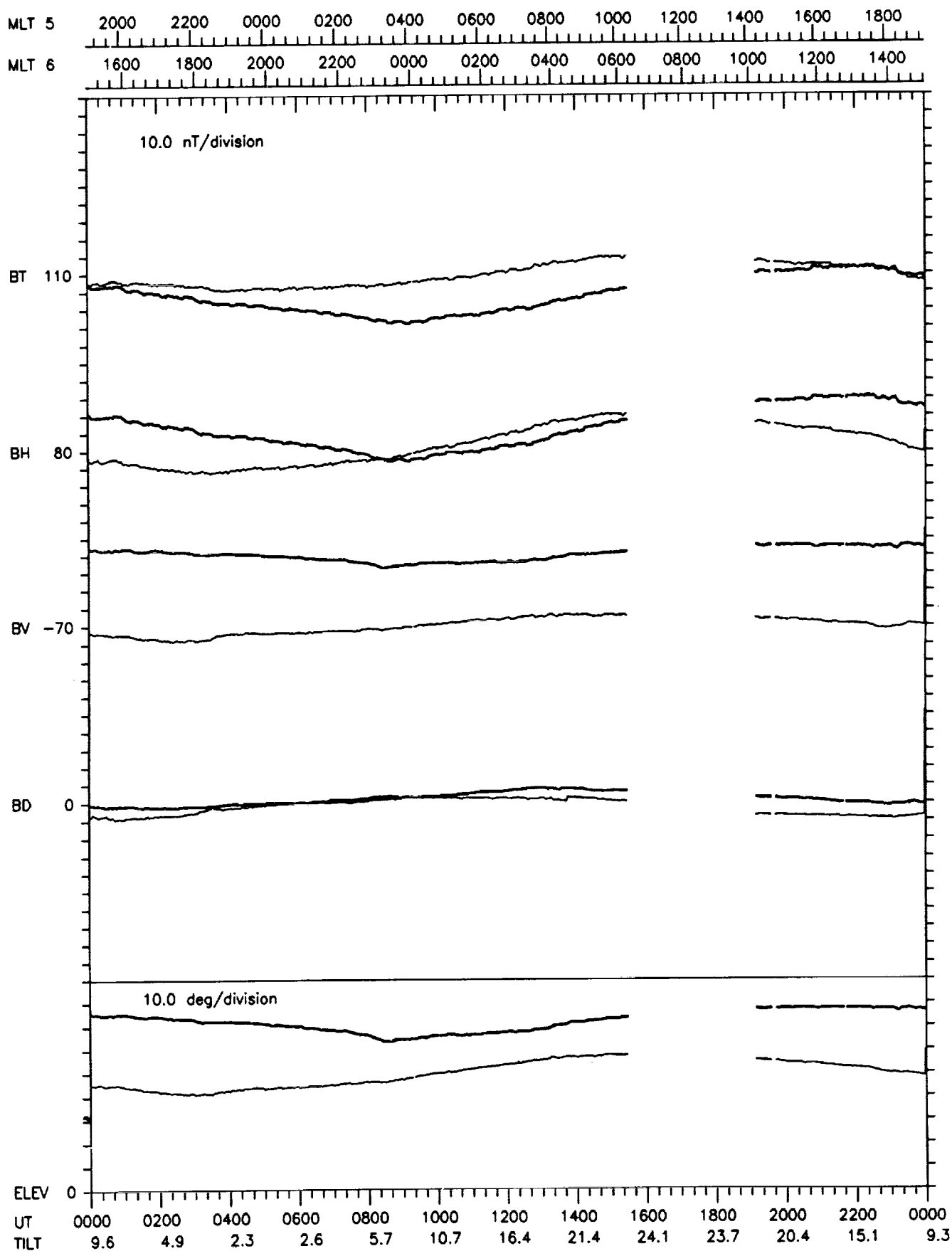
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY228 AUG 16  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



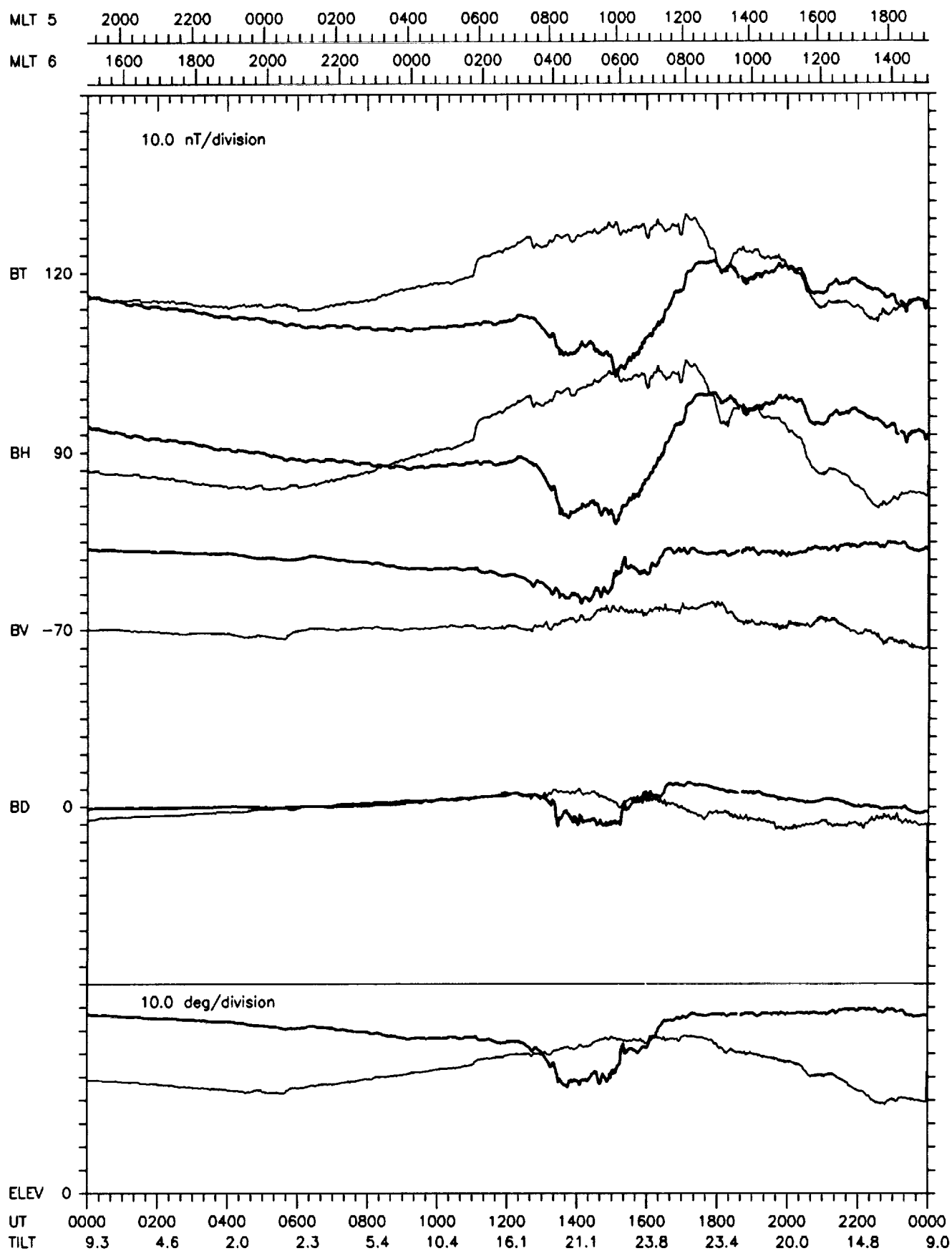
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY229 AUG 17  
 GEOLON, MAGLAT = 5( -74.2, 11.2) 6(-135.4, 4.8)



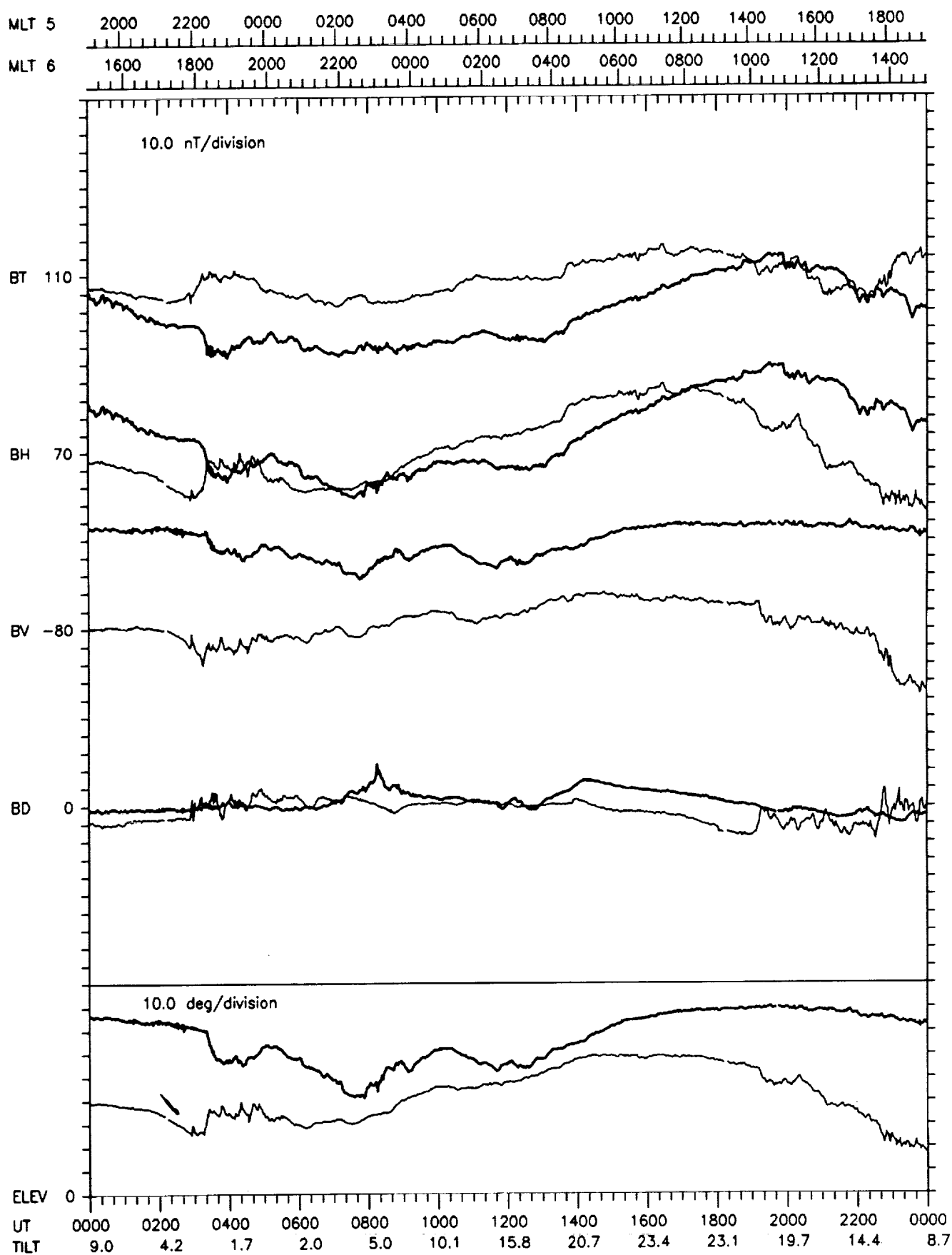
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY230 AUG 18  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY231 AUG 19  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)

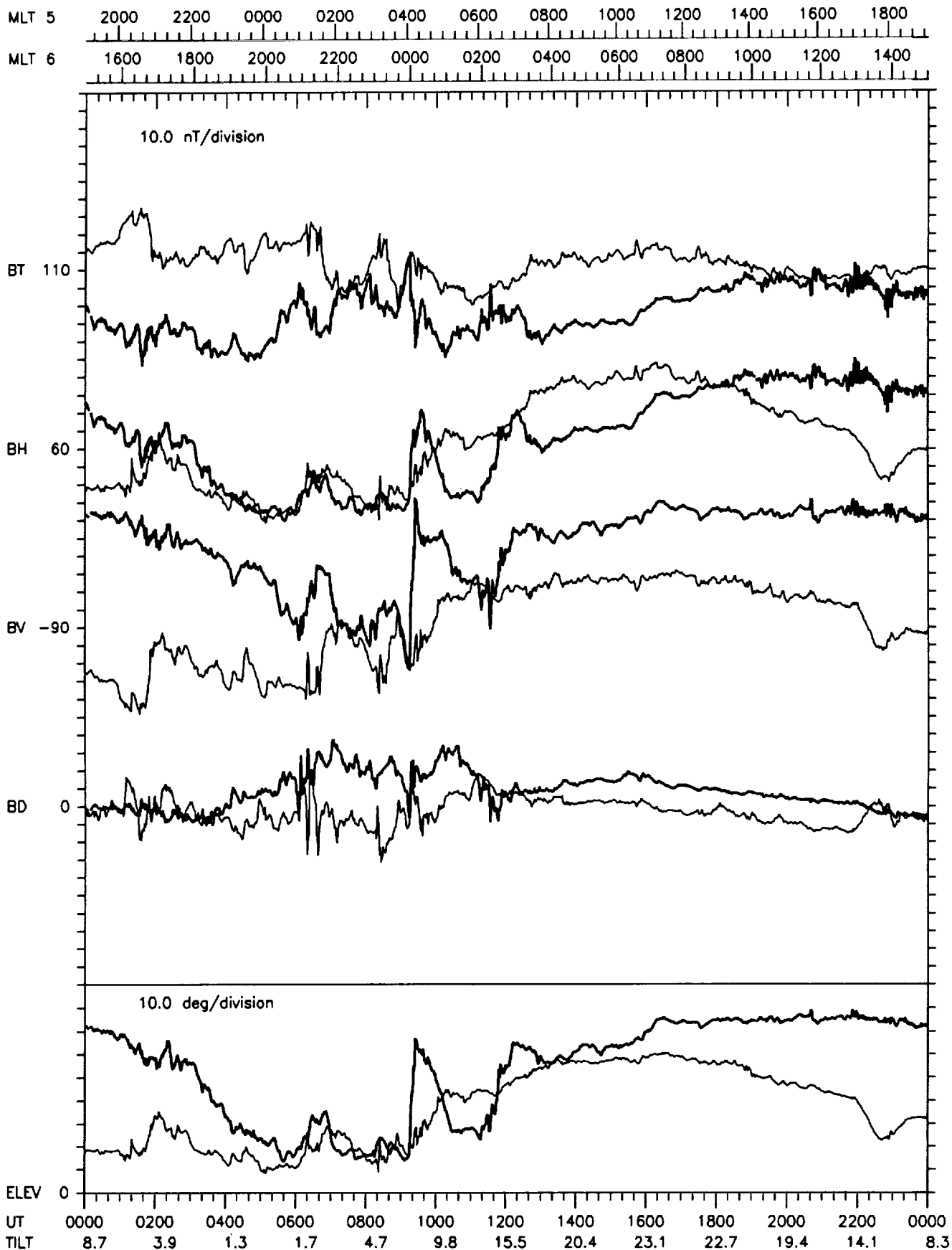


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY232 AUG 20  
 GEOLON, MAGLAT = 5( -74.3, 11.2) 6(-135.4, 4.8)

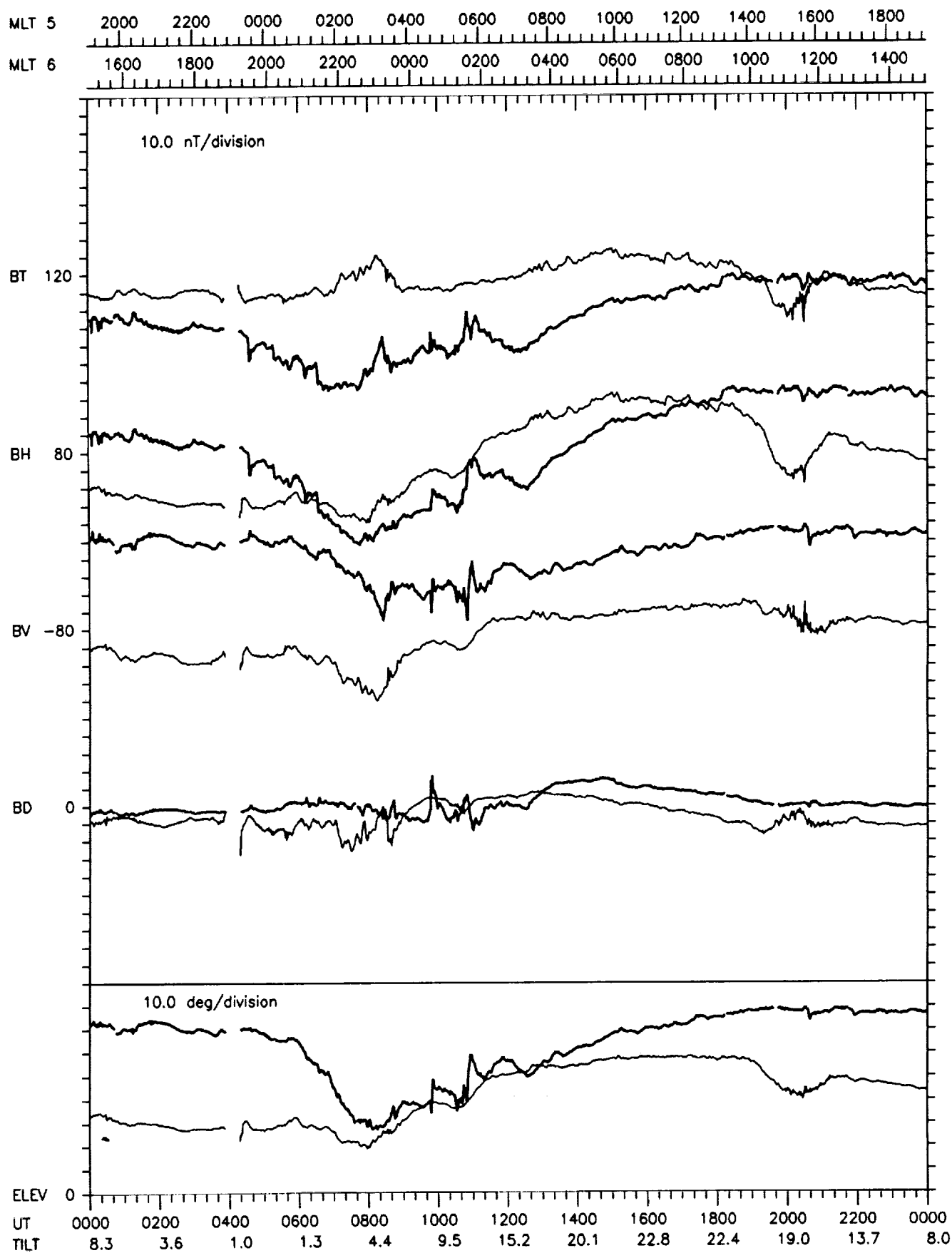




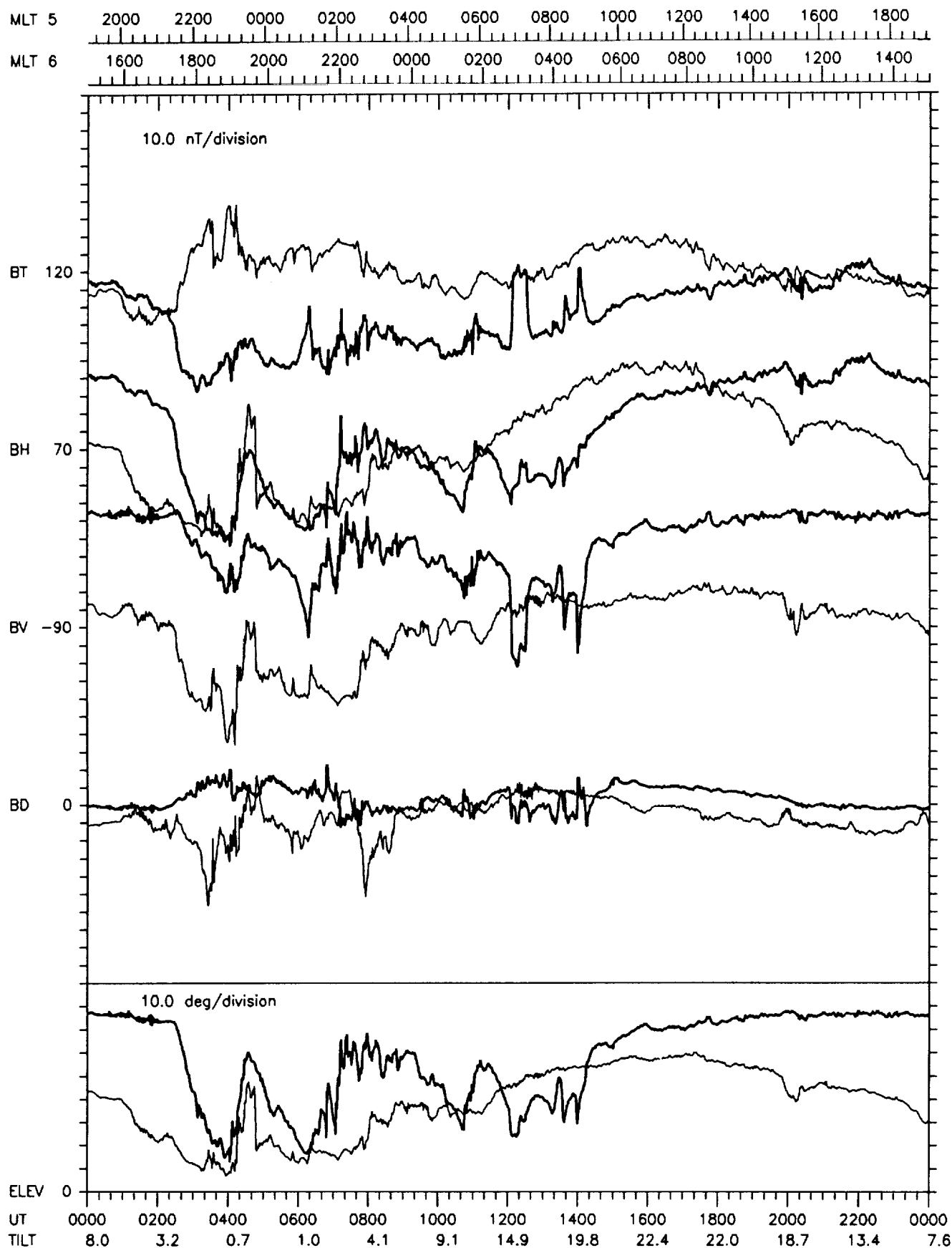
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY233 AUG 21  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



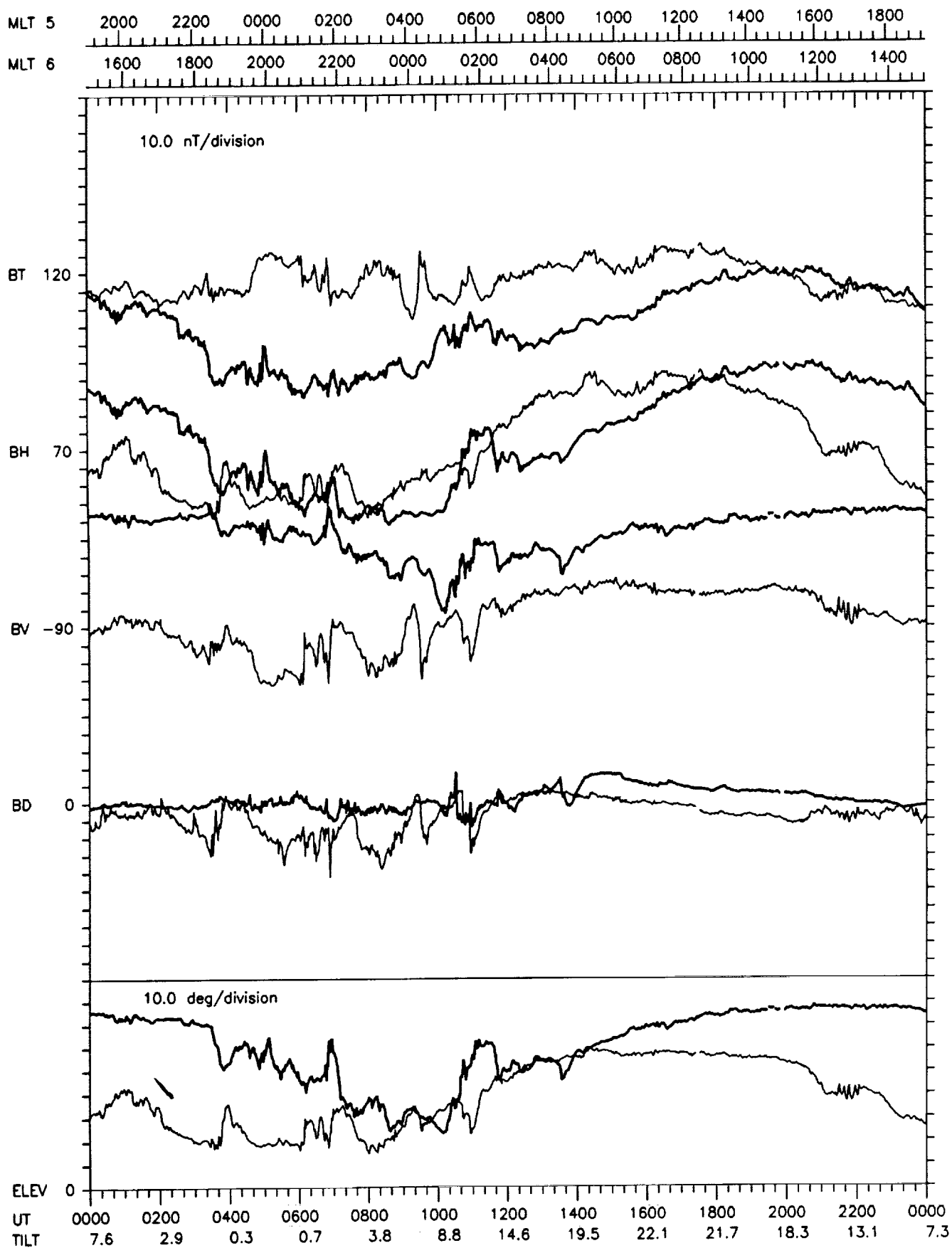
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY234 AUG 22  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



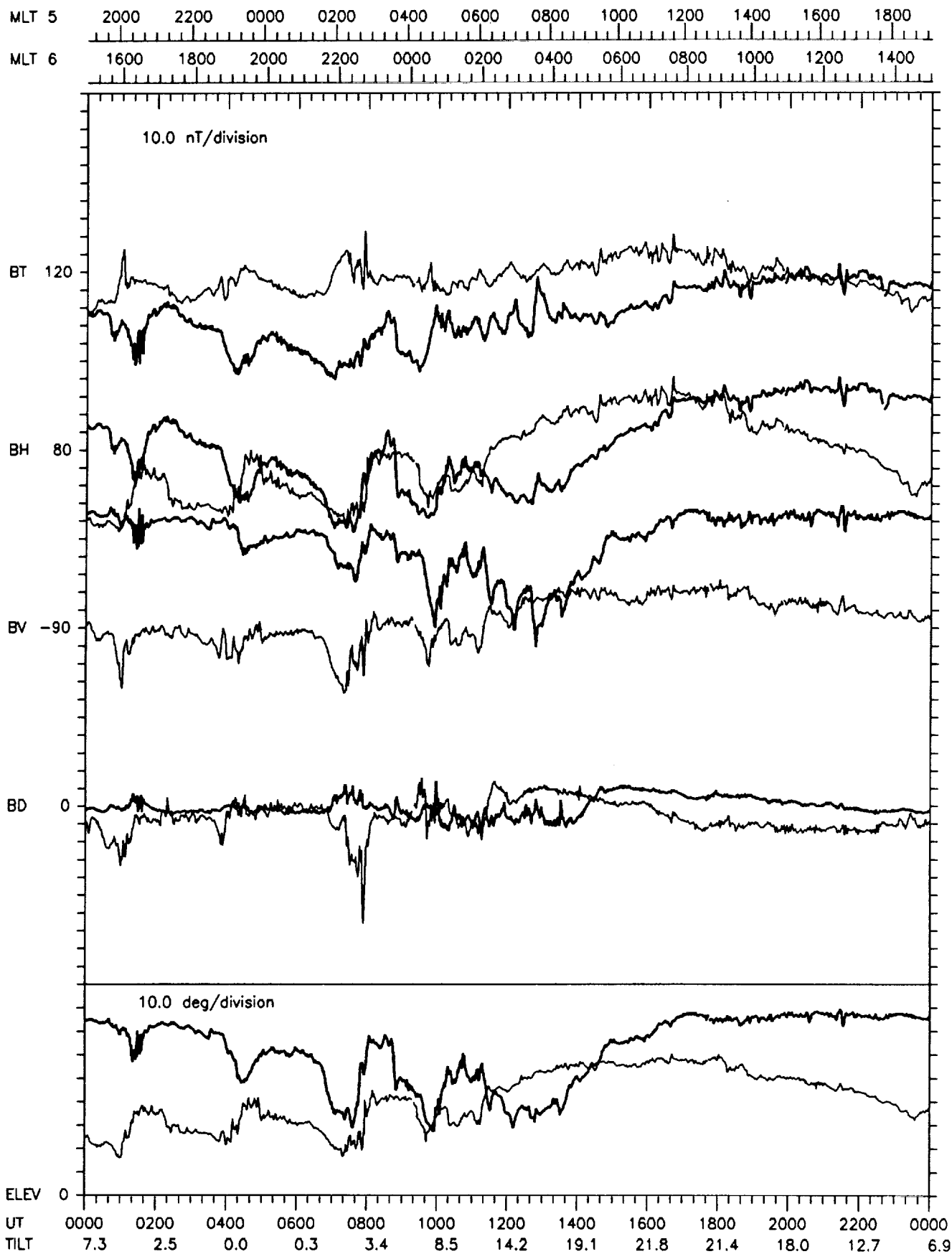
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY235 AUG 23  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



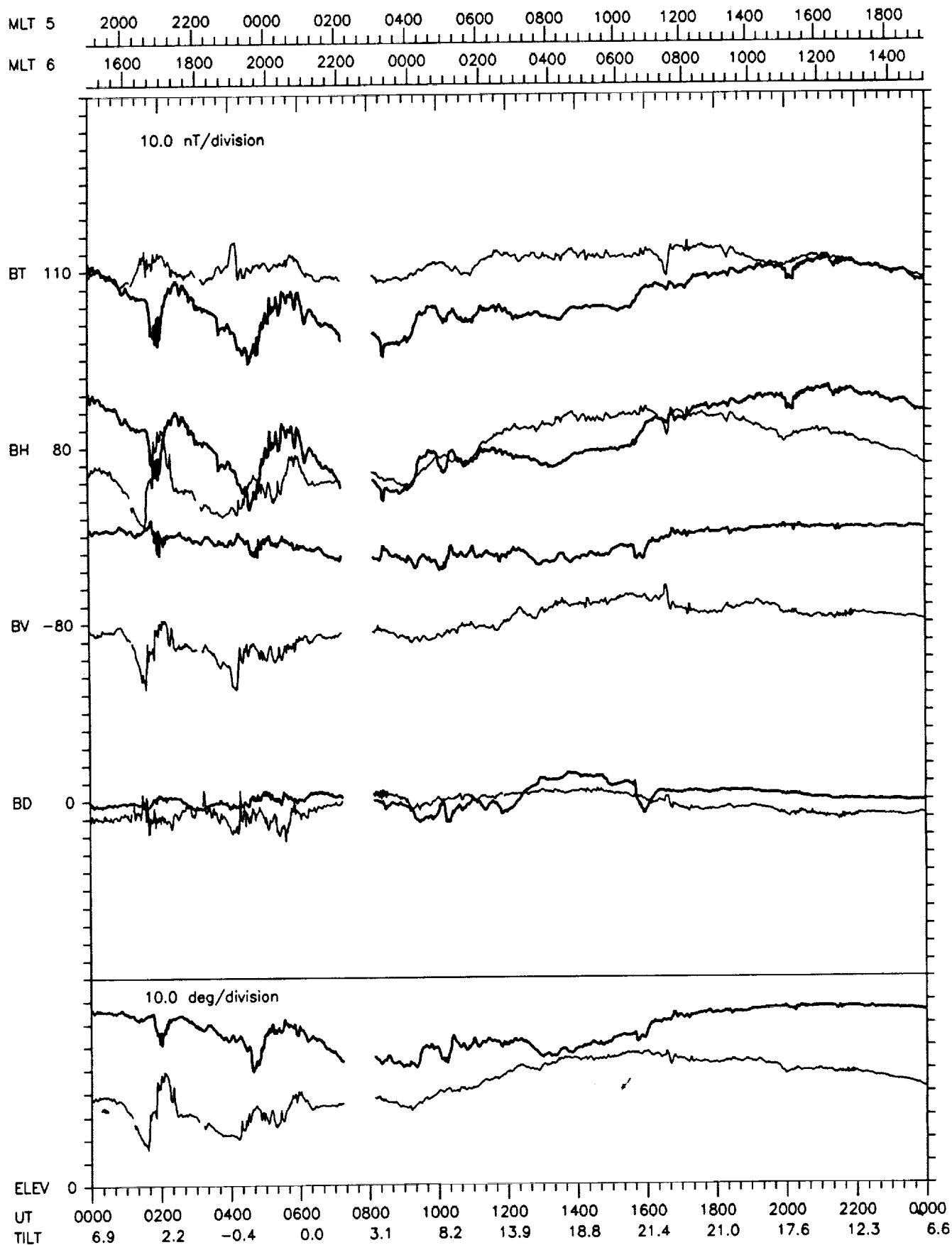
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY236 AUG 24  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



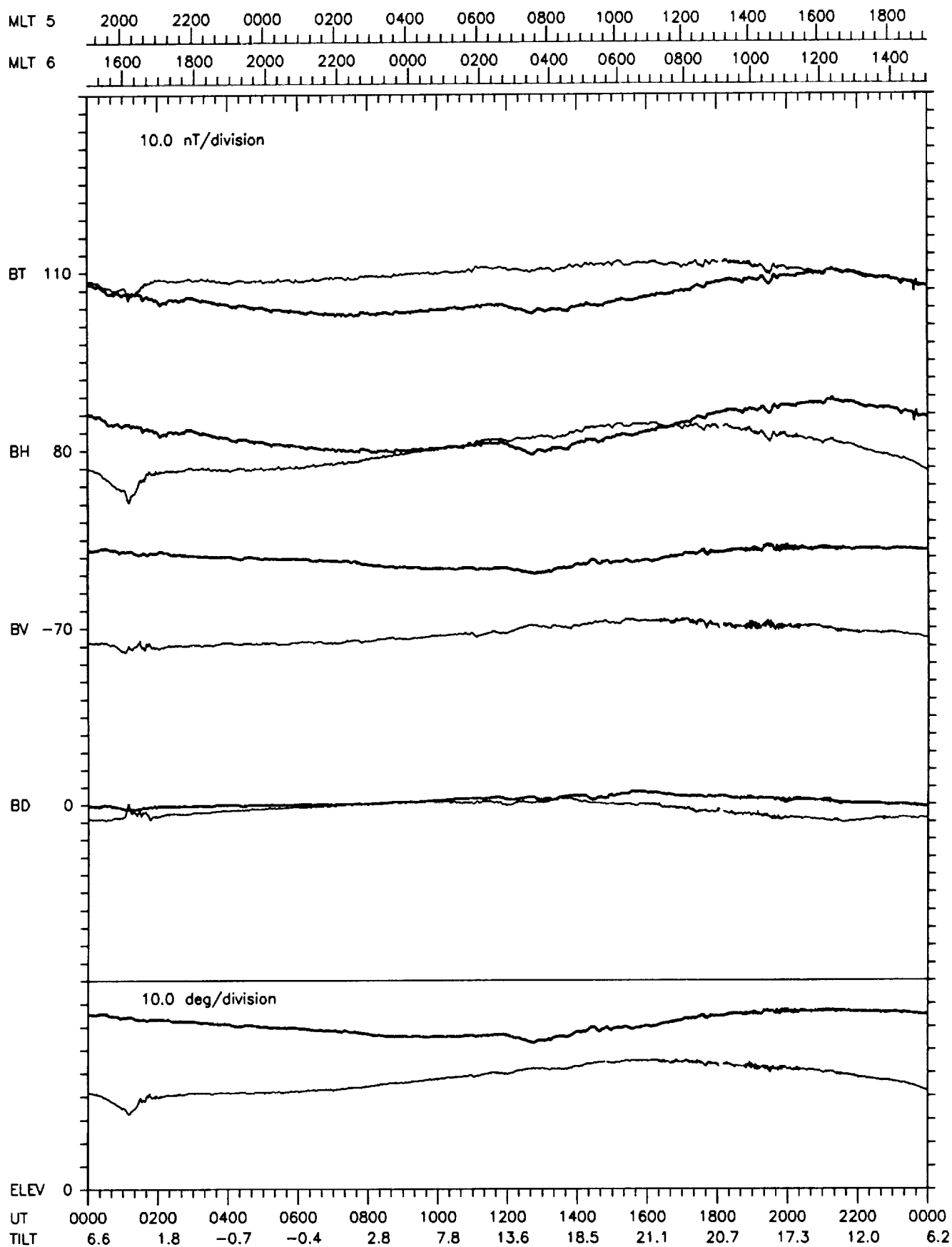
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY237 AUG 25  
 GEOLON, MAGLAT = 5( -74.4, 11.2) 6(-135.4, 4.8)



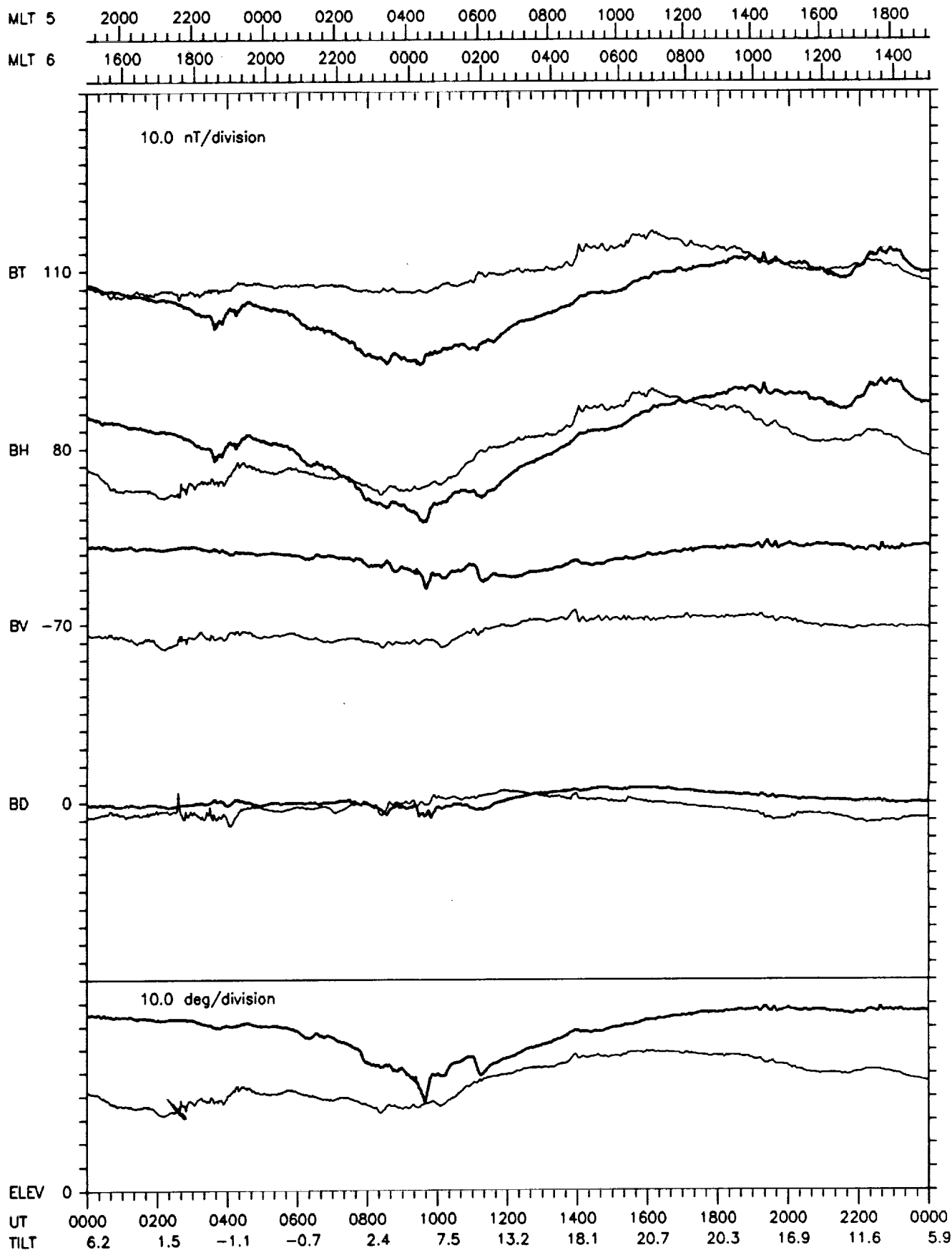
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY238 AUG 26  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY239 AUG 27  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)

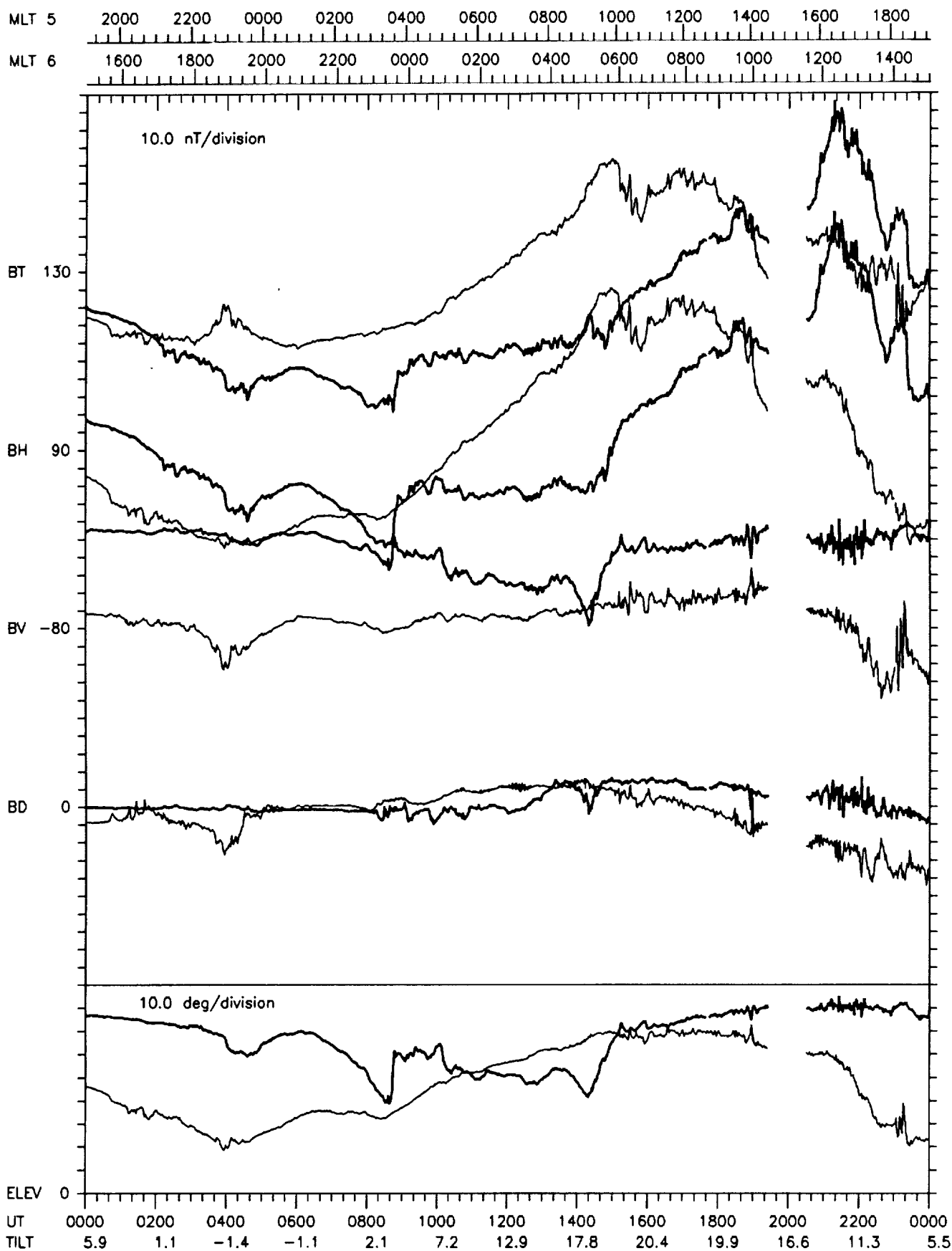


GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY240 AUG 28  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)

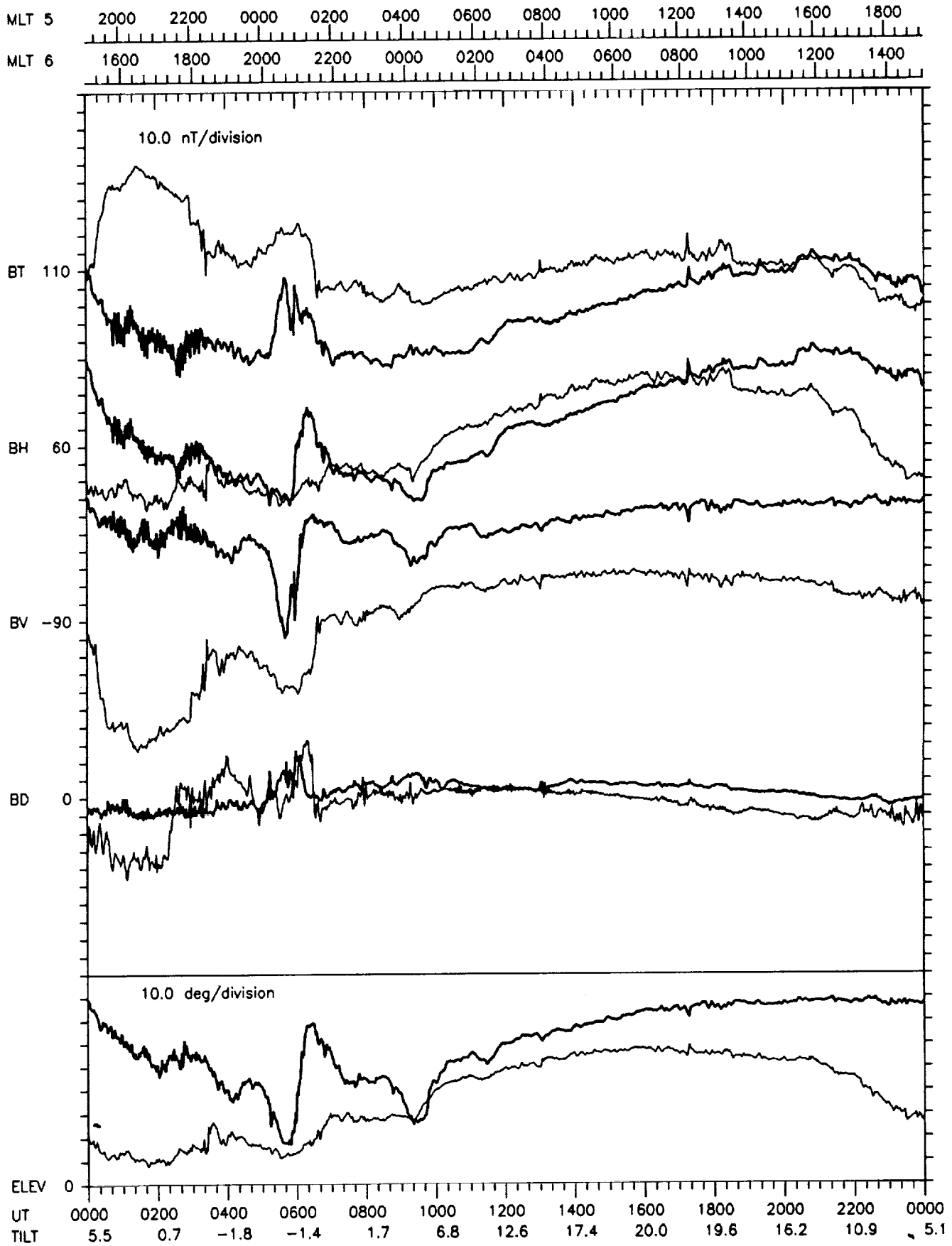




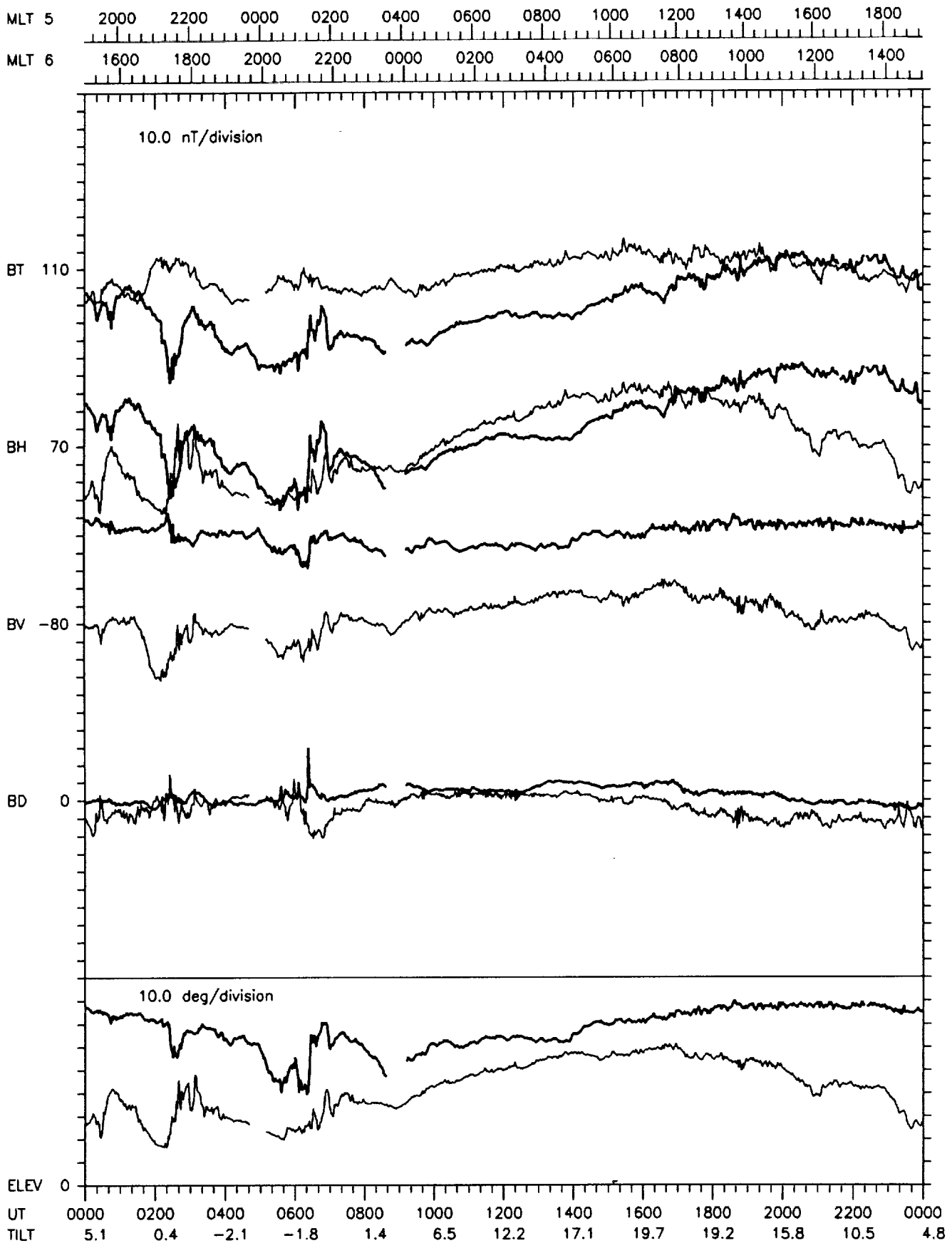
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY241 AUG 29  
 GEOLON, MAGLAT = 5( -74.5, 11.2) 6(-135.4, 4.8)



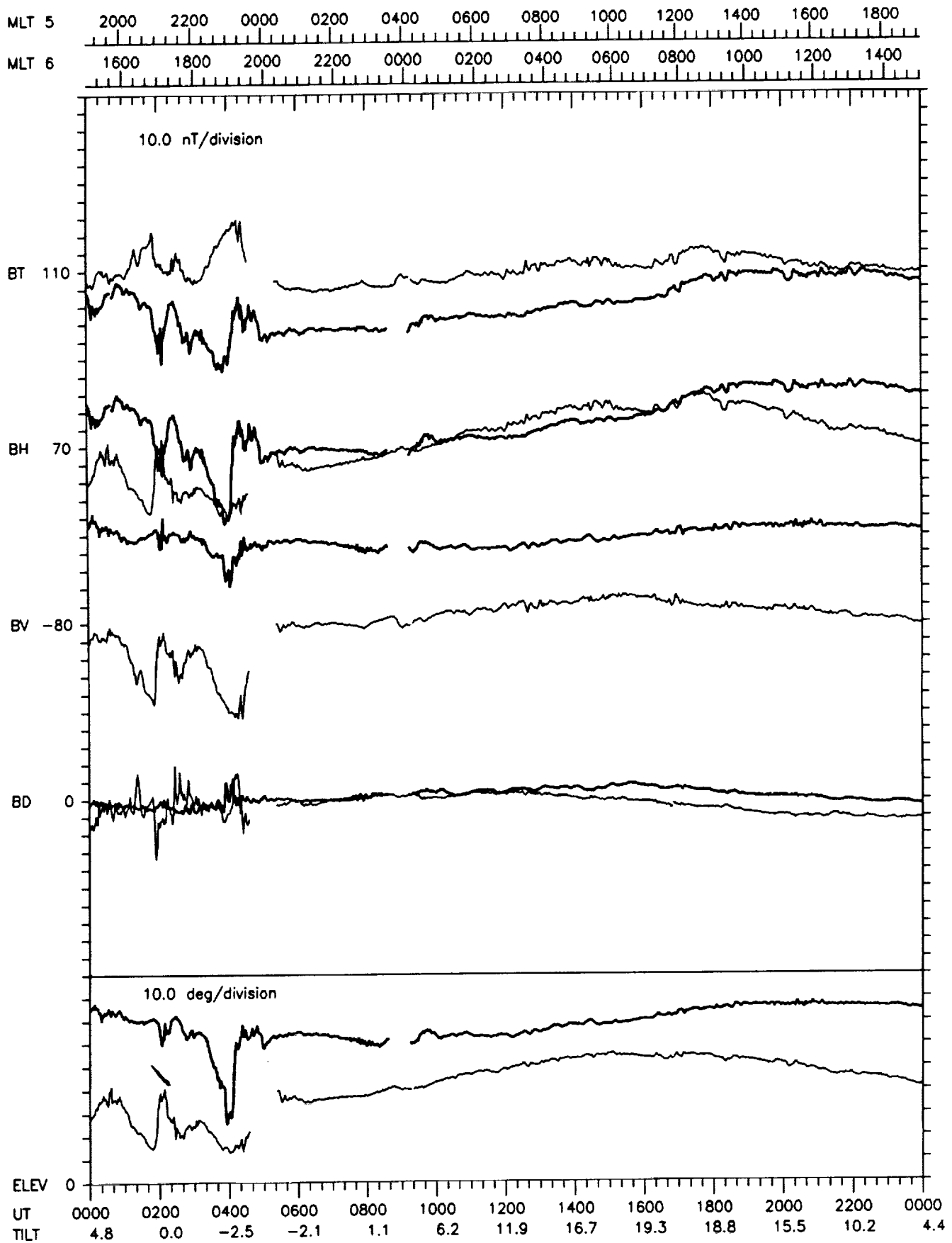
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY242 AUG 30  
 GEOLON, MAGLAT = 5( -74.6, 11.2) 6(-135.4, 4.8)



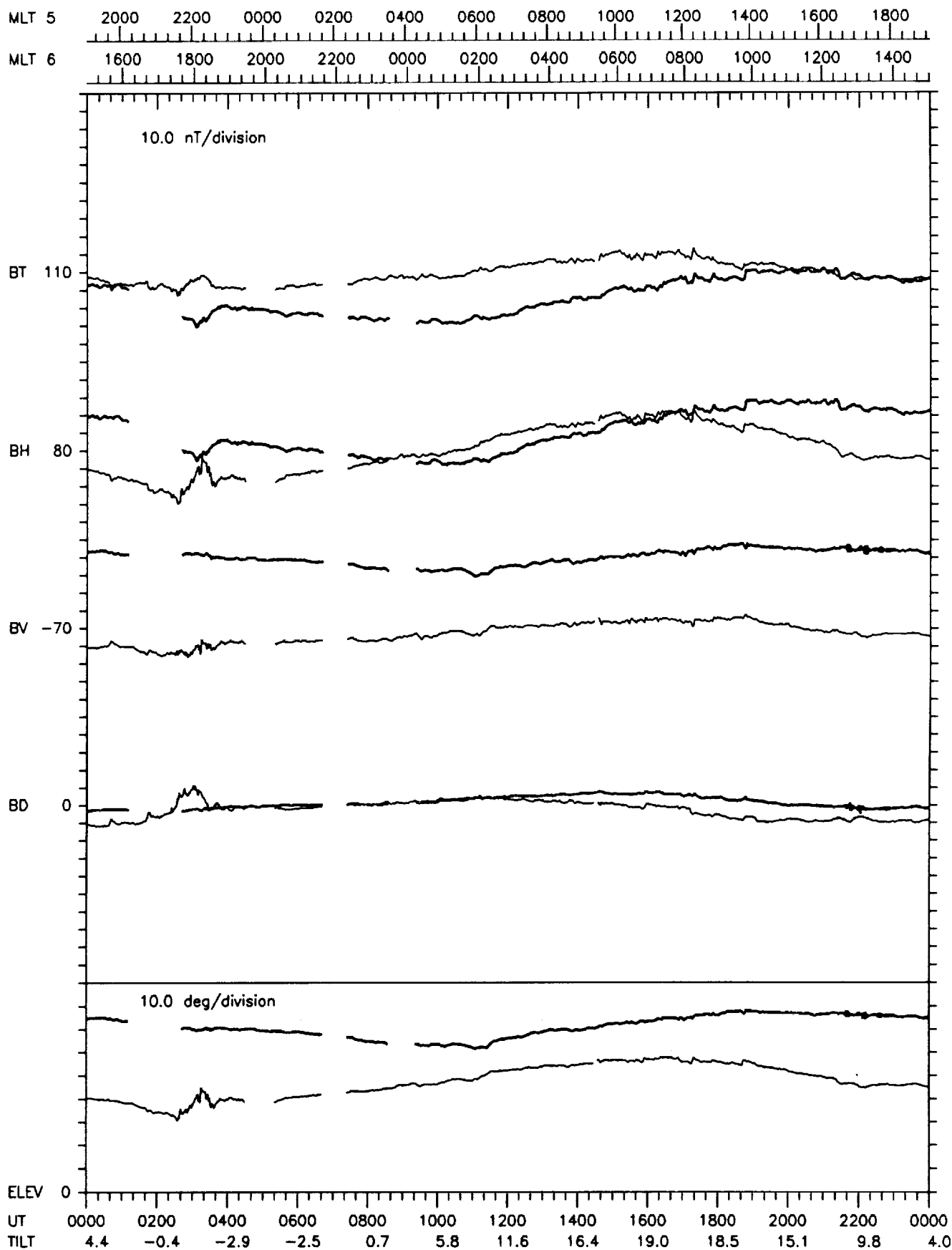
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY243 AUG 31  
 GEOLON, MAGLAT = 5( -74.6, 11.2) 6(-135.4, 4.8)



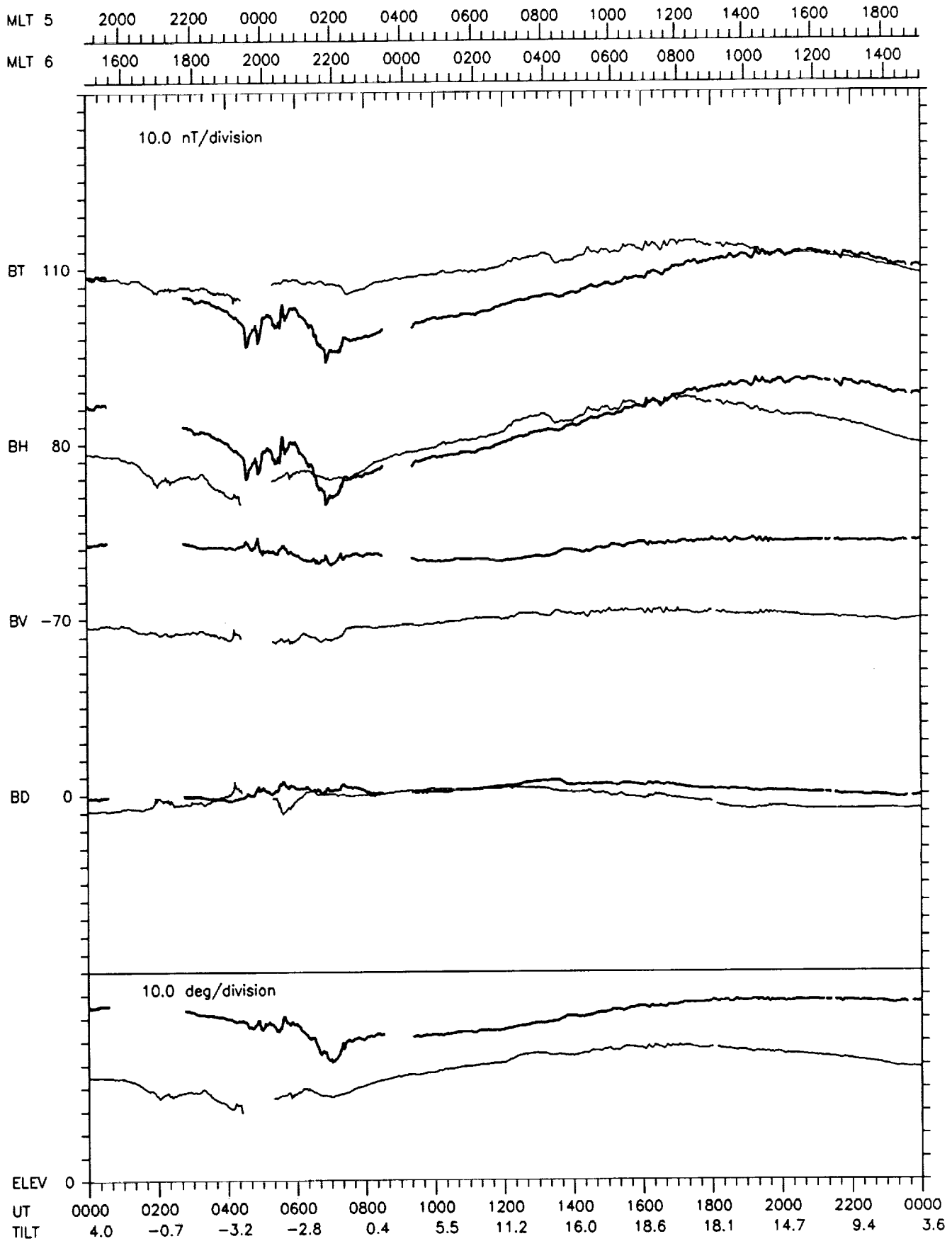
GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY244 SEP 1  
 GEOLON, MAGLAT = 5( -74.6, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY245 SEP 2  
 GEOLON, MAGLAT = 5( -74.7, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY246 SEP 3  
 GEOLON, MAGLAT = 5( -74.8, 11.2) 6(-135.4, 4.8)



GOES 5 & 6 MAG DATA IN DIPOLE VDH COORDINATES  
 1983 DAY247 SEP 4  
 GEOLON, MAGLAT = 5( -74.8, 11.2) 6(-135.4, 4.8)

